



# The Ohio State University Bulletin

VOLUME XXI

MAY, 1917

NUMBER 26

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## SUMMER SESSION

SUPPLEMENTARY ANNOUNCEMENTS

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JUNE 21 TO AUGUST 16  
1917

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## FIRST AID

Dr. E. F. McCampbell, Dean of the College of Medicine, Ohio State University, and of the Medical Reserve Corps, U. S. Army, will conduct a course in First Aid given with the authorization of the American National Red Cross. This course is open to Summer Session students. It will be placed at an hour when there are no regular University classes. Time and place will be announced in The Lantern, which is to be issued twice a week during the Summer Session.

## ART

Office, 203 Hayes Hall

PROFESSOR C. F. KELLEY

119. **Appreciation of Art.** One credit hour. A lecture course designed to give the layman some technical knowledge of the subject and to train his observation of works of art.

131. **Elementary Drawing.** Two credit hours. Special emphasis is laid upon proportion and form and much rapid drawing is done.

141. **Elementary Design.** Two credit hours. Lecture and laboratory. The principles of the theory and practice of design in form and color.

Courses 131 and 141 are prerequisites for all other courses in design and in water color offered by the Art Department.

### Schedule of Classes

119—	M., W., 4.....	Ha. 204	Kelley
131—	Tu., W., Th., F., 7:30-9:30 .....	Ha. 303	Kelley
141—	M., Tu., Th., F., 9:30 .....	Ha. 204	Kelley

## BOHEMIAN LANGUAGE AND LITERATURE

Office, 317 University Hall

MR. L. Z. LERANDO

Selected readings and easy examples of Bohemian Literature with a study of grammar, word structure, and careful attention to pronunciation. Illustrated lectures will cover the subjects of history, customs, development of arts and growth of social and educational ideals among Bohemians and other Slavs.

(The slides will be furnished by courtesy of the Department of Slavic languages in the State University of Nebraska and the Bohemian National Council of America.)

### Schedule of Class

Four hours a week—to be arranged ..... U. H. 317 Lerando





## SUMMER SESSION

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### OFFICERS OF ADMINISTRATION

WILLIAM OXLEY THOMPSON, D. D., LL. D.....	University Hall
<i>President of the University</i>	
M. BLAKEMORE EVANS, Ph. D .....	103 University Hall
<i>Director of the Summer Session</i>	
CARL E. STEEB, B. Ph.....	116 University Hall
<i>Secretary of Board of Trustees and Business Manager</i>	
EDITH D. COCKINS, B. A.....	101 University Hall
<i>Registrar, University Editor, and Secretary of the University Faculty</i>	
LESTER E. WOLFE, M. A .....	100 University Hall
<i>Secretary of Entrance Board and Appointment Committee</i>	

### TEACHING STAFF

WILFORD M. AIKIN, M. A.....	100 C Hayes Hall
<i>Assistant Professor of Principles of Education</i>	
WILLIAM H. ALLISON, Ph. D.....	204 University Hall
<i>Professor of European History, Colgate University</i>	
LEWIS F. ANDERSON, Ph. D.....	100 A Hayes Hall
<i>Professor of History and Philosophy of Education</i>	
CHARLES L. ARNOLD, M. Sc.....	314 University Hall
<i>Associate Professor of Mathematics</i>	
GEORGE F. ARPS, Ph. D.....	403 University Hall
<i>Professor of Psychology</i>	
EMIL H. J. BALZ, M. Sc.....	100 Chemistry Hall
<i>Assistant in Chemistry</i>	
SARAH T. BARROWS, M. L.....	317 University Hall
<i>Assistant Professor of German</i>	
WILLIAM M. BARROWS, M. L.....	101 Botany and Zoology Building
<i>Assistant Professor of Zoology</i>	

EDWIN L. BECK, M. A.....	103	Physics Building <i>Assistant Professor of English</i>
ALBERT M. BLEILE, M. D.....	204	Biological Hall <i>Professor of Physiology</i>
CARL W. BOCK, M. A.....	403	University Hall <i>Assistant in Psychology</i>
GEORGE M. BOLLING, Ph. D.....	307	University Hall <i>Professor of Greek Language and Literature</i>
CECIL E. BOORD, Ph. D.....	100	Chemistry Hall <i>Assistant Professor of Chemistry</i>
GOLDEN BOYER.....		Gymnasium <i>Student Assistant in Physical Education</i>
JAMES W. BRIDGES, Ph. D.....	403	University Hall <i>Instructor in Psychology</i>
CLYDE BROOKS, M.D.....	104	Biological Hall <i>Professor of Physiology</i>
SAMUEL W. BROWN, Ph. D.....	100	B Hayes Hall <i>Professor of School Administration</i>
CHARLES A. BRUCE, B. A.....	305	University Hall <i>Professor of Romance Languages</i>
WILLIAM W. CAMPBELL, M. A.....	205	Horticulture and Forestry Building <i>Director of Music, Westminster College</i>
LEOPOLD CARDON, B. ès Lettres.....	305	University Hall <i>Instructor in Romance Languages</i>
FRANK R. CASTLEMAN, B. Sc.....		Athletic House <i>Professor of Physical Education</i>
ALBERT R. CHANDLER, Ph. D.....	321	University Hall <i>Assistant Professor of Philosophy</i>
GEORGE S. CHAPIN, M. A.....	305	University Hall <i>Assistant Professor of Romance Languages</i>
JOHN L. CLIFTON, B. Sc. (Edu.).....	100	C Hayes Hall <i>Assistant Professor of the Principles and Practice of Education</i>
FRANCIS W. COKER, Ph. D.....	200	University Hall <i>Professor of Political Science</i>
J. FOREST CRAIG, M. A.....	103	Physics Building <i>Instructor in English</i>

SAMUEL C. DERBY, M. A.....	307	University Hall
<i>Professor of Latin</i>		
EDWIN P. DURRANT, M. A.....	204	Biological Hall
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BERTHOLD A. EISENLOHR, M. A.....	317	University Hall
<i>Professor of German</i>		
WALLACE S. ELDEN, Ph. D.....	307	University Hall
<i>Professor of Latin</i>		
JOHN F. EVANS, M. A.....	403	University Hall
<i>Instructor in Psychology</i>		
WILLIAM L. EVANS, Ph. D.....	203	Chemistry Hall
<i>Professor of Chemistry</i>		
CHARLES W. FOULK, B. A.....	204	Chemistry Hall
<i>Professor of Chemistry</i>		
WILLIAM L. GRAVES, M. A.....	203	Physics Building
<i>Professor of English</i>		
EDWARD F. HEARN.....	205	Horticulture and Forestry Building
<i>Professor of Piano Playing and Harmony,</i>		
<i>Westminster College</i>		
HOMER C. HOCKETT, B. L.....	207	University Hall
<i>Professor of American History</i>		
ROBERT C. HUMMELL, M. A.....	100	Chemistry Hall
<i>Instructor in Chemistry</i>		
EVA HUNTER .....		Gymnasium
<i>Assistant in Physical Education</i>		
EDGAR S. INGRAHAM, Ph. D.....	305	University Hall
<i>Professor of Romance Languages</i>		
HEINRICH C. KEIDEL, Ph. D.....	317	University Hall
<i>Assistant Professor of German</i>		
CHARLES F. KELLEY, B. A.....	203	Hayes Hall
<i>Professor of Art</i>		
VICTOR A. KETCHAM, B. A., LL. B.....	103	Physics Building
<i>Assistant Professor of English</i>		
FRANK J. KLINGBERG, Ph. D.....	204	University Hall
<i>Professor of Modern European History,</i>		
<i>University of Southern California</i>		



LEONARD V. KOOS, M. A .....	100	B Hayes Hall
<i>Associate Professor of School Administration, University of Washington</i>		
HARRY W. KUHN, Ph. D .....	314	University Hall
<i>Professor of Mathematics</i>		
FRANCIS L. LANDACRE, Ph. D.....	105	Biological Hall
<i>Professor of Anatomy</i>		
JOSEPH A. LEIGHTON, Ph. D., LL. D.....	321	University Hall
<i>Professor of Philosophy</i>		
LUDWIG LEWISOHN, Litt. D.....	318	University Hall
<i>Assistant Professor of German</i>		
OLIVER C. LOCKHART, M. A. ....	5	Page Hall
<i>Professor of Economics and Sociology</i>		
JOHN T. LYMAN, Ph. D.....	203	Townshend Hall
<i>Professor of Agricultural Chemistry</i>		
VERA M. MCCOY, M. A.....	202	Veterinary Laboratory
<i>Instructor in Bacteriology</i>		
GEORGE H. MCKNIGHT, Ph. D.....	103	Physics Building
<i>Professor of English</i>		
EDGAR H. MCNEAL, Ph. D.....	204	University Hall
<i>Professor of European History</i>		
ALLISON W. MARSH, B. A.....		Gymnasium
<i>Instructor in Physical Education</i>		
ARTHUR R. MEAD, M. A.....	100	A Hayes Hall
<i>Associate Professor of Education, Ohio Wesleyan University</i>		
ROBERT MEIKLEJOHN, M. E.....	205	Brown Hall
<i>Assistant Professor of Engineering Drawing</i>		
SELMA MESLOH, B. A., B. Sc. (Edu.) .....		Gymnasium
<i>Assistant in Physical Education</i>		
EDITH S. MOODIE.....		Gymnasium
<i>Director of Physical Education, Thomas Normal Training School, Detroit</i>		
CHARLES B. MORREY, M. D .....	202	Veterinary Laboratory
<i>Professor of Bacteriology</i>		
JOSEPH S. MYERS, B. A.....	226	Shop Building
<i>Professor of Journalism</i>		



# SUMMER SESSION

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HUBERT L. OLIN.....	100	Chemistry Hall
<i>Assistant Professor of Chemistry</i>		
CLARENCE PERKINS, Ph. D.....	204	University Hall
<i>Professor of European History</i>		
CHARLES E. PERSONS, Ph. D.....	5	Page Hall
<i>Professor of Economics and Sociology, Washington University</i>		
SAMUEL E. RASOR, M. Sc.....	314	University Hall
<i>Professor of Mathematics</i>		
CLYDE O. RUGGLES, Ph. D.....	5	Page Hall
<i>Professor of Economics and Sociology</i>		
FREDERICK J. SALTER, M. Sc.....	202	Townshend Hall
<i>Instructor in Agricultural Chemistry</i>		
ARTHUR M. SCHLESINGER, M. A.....	207	University Hall
<i>Assistant Professor of American History</i>		
JOHN P. SCHNEIDER, Ph. D.....	103	Physics Building
<i>Professor of English, Wittenberg College</i>		
ALPHEUS W. SMITH, Ph. D.....	107	Physics Building
<i>Assistant Professor of Physics</i>		
ROBERT E. SMITH.....		Shop Building
<i>Assistant in Woodworking</i>		
GEBHARD STEGEMAN, M. A.....	100	Chemistry Hall
<i>Assistant in Chemistry</i>		
MARIE STEHLE.....	101	Botany and Zoology Building
<i>Department of Zoology</i>		
LYNN W. ST. JOHN, B. Ph.....		Athletic House
<i>Professor of Physical Education</i>		
WILMER G. STOVER, M. A.....	102	Botany and Zoology Building
<i>Assistant Professor of Botany</i>		
CARL L. SVENSEN, B. Sc.....	205	Brown Hall
<i>Instructor in Engineering Drawing</i>		
EDWIN S. TODD, Ph. D.....	5	Page Hall
<i>Professor of Economics, Miami University</i>		
EDGAR N. TRANSEAU, Ph. D.....	102	Botany and Zoology Building
<i>Professor of Botany</i>		
GEORGE M. TRAUTMAN, B. Sc. (For.).....		Gymnasium
<i>Instructor in Physical Education</i>		

HARLAN UPDEGRAFF, Ph. D .....	100	B Hayes Hall
<i>Professor of School Administration, University of Pennsylvania</i>		
ELDEN L. USRY, M. A .....	212	Shop Building
<i>Professor of Manual Training</i>		
JAMES H. WARREN, M. D.....	105	Biological Hall
<i>Instructor in Anatomy</i>		
ALBERT P. WEISS, Ph. D.....	403	University Hall
<i>Assistant Professor of Psychology</i>		
JOHN W. WILCE, B. A .....		Athletic House
<i>Professor of Physical Education</i>		
EARL W. WILEY, M. A.....	103	Physics Building
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OWEN E. WILLIAMS, B. Sc.....	205	Brown Hall
<i>Assistant Professor of Engineering Drawing</i>		
DWIGHT A. WOODBURY, M. Sc.....	107	Physics Building
<i>Instructor in Physics</i>		
JAMES H. YOUNG, M. Sc.....	100	Chemistry Hall
<i>Instructor in Chemistry</i>		

# THE OHIO STATE UNIVERSITY

The Ohio State University is supported by appropriations from the State and Federal governments. It is the largest university in Ohio. It ranks ninth in size in the United States and fourth among the State Universities.

The campus and farm cover 585 acres. The campus proper contains 110 acres. There are thirty-three buildings on the campus, and four residences. The total value of land and buildings is over \$5,000,000. The enrollment in the University, November 1st, 1916, was 5761, and the number of instructors and administrative officers numbered 541. The University is open on equal terms to both sexes.

## LOCATION

The University is situated within the corporate limits of the city of Columbus, and is reached by means of the High Street or Neil Avenue electric cars.

The offices of the Entrance Board, the Registrar, the Bursar, and the President of the University are located in University Hall.

## ORGANIZATION

For convenience of administration, the departments of the University are grouped into organizations called colleges. The Ohio State University comprises eleven colleges and a graduate school, each under the administration of a Dean and College Faculty, as follows:

Graduate School	College of Education
College of Agriculture	College of Engineering
College of Arts, Philosophy and Science	College of Homœopathic Medicine
College of Commerce and Journalism	College of Law
College of Dentistry	College of Medicine
	College of Pharmacy
	College of Veterinary Medicine

## SUMMER SESSION

In addition to the above, there is a Summer Session under the supervision of a Director and governing committee for the administration of the regular University courses offered in the summer.

This bulletin is devoted exclusively to a description of the work offered during the Summer Session of 1917.

*Note*—The University publishes a bulletin descriptive of each college. Copies may be obtained by addressing L. E. Wolfe, Secretary of the Entrance Board, Ohio State University, Columbus, Ohio, and stating the college in which the writer is interested.



## **SPECIAL ANNOUNCEMENTS**

### **PRACTICE TEACHING**

On the joint recommendation of the State Department of Public Instruction, the President of the University, and the Dean of the College of Education, no courses in Practice Teaching will be offered in the Summer Session of 1917 at the Ohio State University. In their opinion, courses in Practice Teaching cannot at present be conducted effectively and satisfactorily in summer schools.

### **THE COBURN PLAYERS**

July 25 and 26 the Coburn Players of New York will give three open-air performances on the campus under the auspices of the University. This will afford an excellent opportunity for students of the Summer Session to see the Shakespearian Revivals of this admirable company.

### **PROFESSOR HARLAN UPDEGRAFF**

Professor Harlan Updegraff of the College of Education, of the University of Pennsylvania, has been secured to give two courses in the Department of School Administration: Administration of Secondary Schools (113) and Seminary in City School Survey (201).

### **THE LANTERN**

For the first time, the Department of Journalism offers courses during the Summer Session. Under the direction of this department, there will be a semi-weekly edition of the Lantern issued.

### **PRINCIPLES OF THE HISTORICAL STUDY OF LANGUAGE**

The special attention of all teachers and students of language, both English and foreign, is called to this extremely important course listed under the Department of Comparative Literature and Language.

### **DEUTSCHES HAUS**

A DEUTSCHES HAUS, in which German will be used exclusively and German newspapers and periodicals will be kept on file, will be conducted by the German Department.

It is a recognized fact that the lack of ability to use the spoken language is the weakest point in the equipment of the average teacher of German. Two months spent in a house where only German is spoken will do much to remedy this defect.

The cost per individual will not exceed \$12 a month for room. Board will also be offered and will be open to a limited number of men and women not living in the house. The cost of board will not exceed \$4.50 a week.

Application should be made at once to Professor Sarah Barrows, Department of German, Ohio State University.

#### SUMMER LIBRARY SCHOOL

The Ohio State Board of Library Commissioners, by arrangement with the Ohio State University, plans to conduct a summer library school, July 2-August 11, inclusive, 1917. The school will be under the immediate direction of the State Library Organization Department, and will be held in the Library of the Ohio State University. This course does not take the place of the longer term schools, but is designed especially for those persons holding positions in the smaller libraries who wish to improve their library technique, and who may not have either the time or the means to attend one of the regular library schools. It is expected that no tuition fee will be charged.

No entrance examinations will be required, but candidates are supposed to have completed a high school course, or its equivalent. Only those persons holding positions in libraries or who are under definite appointment to library positions will be considered eligible. The course will consist of class work, visits to libraries and other places of professional interest and it is expected that sufficient funds will be available to provide for occasional lectures on special topics by visiting librarians.

Requests for application blanks or further information should be addressed to the Director, J. Howard Dice, Library Organization Department, State House, Columbus, Ohio.



# **SUMMER SESSION**

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## **A REGULAR SESSION OF THE UNIVERSITY**

### **GENERAL INFORMATION**

The thirteenth Summer Session of the Ohio State University will open Thursday, June 21, and close eight weeks later on Thursday, August 16, 1917. Instruction will begin in all departments on June 22, and, except where otherwise indicated in the departmental announcements, will continue for eight weeks.

### **PURPOSE OF THE SESSION**

The special aim of the Summer Session is to place the extensive equipment of the University at the service of those who cannot be in residence at the University during the regular academic year. The courses are so planned as to meet the needs of (a) superintendents, high school principals, supervisors and teachers; (b) graduate students; (c) undergraduate college students; (d) special students over 21 years of age.

All students who attend the Summer Session are registered in one of the regular colleges of the University, determined by the field in which they wish to study or the purpose they have in view.

An effort is made to change the courses from year to year in such a way as to make the work of the Summer Sessions continuous. Standard elementary courses are offered annually. Certain standard advanced and graduate courses are given every second or third summer. Students are advised to pursue systematic work extending over several years.

### **SUPERINTENDENTS AND PRINCIPALS**

Special attention will be given to the problems of school administration. The study of school law, of the relation of the school to the community, of the authority of different school officers, and of the policies that should control supervision will greatly assist in solving local educational problems.

### **SUPERVISORS AND TEACHERS**

Courses for teachers will be offered in the philosophy, psychology, history, organization and supervision of education. The various phases of the teaching process will be treated, and an effort will be made to prepare teachers in professional subjects. High School teachers will be given an opportunity to obtain elementary and advanced work along the lines of their specialties and to discuss the best methods of teaching their subjects. Courses are offered in the teaching of athletics, English, European history, German, Latin, mathematics, music, physical education and zoology.

### **GRADUATE WORK**

Special provision is made in the Summer Session for teachers and others already holding a bachelor's degree to pursue advanced lines of work either as special students or as candidates for a higher degree. The increased demand for graduate work in the University has led to the organization of a separate school known as the Graduate School, which has under its supervision all the graduate work offered in the University. Attention is especially called to the fact that students holding a degree from an approved college may satisfy the residence requirement for the degree of Master of Arts by attending three summer sessions, provided a satisfactory amount of additional work is carried on between sessions, under the supervision of the departments concerned. It is thus possible for a student whose training is such as to enable him to begin graduate work to secure the degree, Master of Arts, by attending three summer sessions. This rule applies to graduate students only.

Further information concerning graduate work may be obtained by addressing the Dean of the Graduate School.

### **COLLEGE STUDENTS**

Courses are also offered to enable students now enrolled in this University or in other colleges and universities not offering courses during the summer, to earn advanced credit and to remove conditions. The shops are open to those students whose courses require summer shopwork, and to such as desire to do advanced or extra work of this character.

**HIGH SCHOOL GRADUATES OF 1917**

Many of the courses open to freshmen in the Colleges of Agriculture, Arts, Philosophy and Science, Education, and Engineering are offered during the Summer Session. Some students utilize the Summer Session to lighten the work of the first year or to gain credits toward one of the combination courses leading to two degrees. It is possible by Summer Session work to complete certain four year courses in three years. A student should consult the secretary of the college he desires to enter before selecting the work to be carried during the summer.

**LAKE LABORATORY**

The University maintains a summer laboratory on Lake Erie at Cedar Point near Sandusky, which is designed to meet the needs of teachers and students who wish to give special attention to zoology and botany. The regular work of the Laboratory begins June 21 and closes August 2, but by special arrangement it will remain open to research students for two weeks longer.

In addition to the general courses which serve as an introduction to these subjects, courses are offered for advanced students in botany, entomology, ecology, experimental zoology, vertebrate and invertebrate morphology, embryology, and ichthyology.

The location affords excellent opportunities for beginning investigation and for securing material for work already begun.

The laboratory is open to investigators and everything possible is done to facilitate the work of advanced students and teachers. The staff of instructors includes a number of the best and most experienced teachers of these subjects from the different colleges of the State. A special bulletin concerning the courses offered, the conditions of admission, and the expenses, may be secured by addressing the Secretary of the Entrance Board.



## ADMISSION

The requirements for admission to the Summer Session are the same as those for admission to the other regular sessions of the University. Students already admitted to the University need present no further credentials. Students who have not been admitted must apply to the Entrance Board for admission to one of the Colleges of the University or to the Graduate School. This may be done by correspondence. Prospective Summer Session students are urgently requested to secure admission cards before the opening day of the session. In writing to the Entrance Board state that admission to the Summer Session is desired. A student may be admitted either as a regular student or as a special student.

A regular student is one who has met the regular entrance requirements of the college in which he wishes to study. Any graduate of a first grade high school may enter the College of Arts, Philosophy and Science or the College of Education. For graduation, however, certain prescribed requirements must be satisfied. On these, and on the requirements for entrance to other colleges of the University, a detailed statement will be found in the bulletin of General Information, which may be secured from L. E. Wolfe, Secretary of the Entrance Board.

### ADMISSION TO SPECIAL STUDIES

A special student is one who has met the regular entrance requirements and desires to do special work, or one who is at least twenty-one years of age and has not met the regular entrance requirements but who has satisfied the Entrance Board and the Executive Committee of the appropriate college that he is qualified to do the work in question. This classification will include students of other colleges and universities, who enter only for the Summer Session and who bring statements from the registrar of their college certifying to at least freshman standing.

## REGISTRATION

Registration consists of the following steps in the order indicated: The student must secure (1) an admission card from the Entrance Board; (2) an election (or class) card from the secretary of the appropriate college or of the Graduate School; (3) a fee-card from the office of the Registrar.

Fees are payable at the office of the Bursar, and must be paid before the student will be admitted to classes.

### LATE REGISTRATION

Students who enter late will be given an opportunity to make up a reasonable amount of work, but those entering after June 30 will find it impossible to take full work for credit. Students who expect to register late should communicate with the departments in which their work will be taken and arrange to do some necessary reading in advance.

### NOTICE TO UNIVERSITY STUDENTS

Students in attendance during the academic year 1916-17, who intend to register in the Summer Session should confer with their college secretaries and complete their election cards before the end of the second semester.

The various secretaries may be found as follows:

Summer Session—Room 103, University Hall

College of Agriculture—Room 100, Townshend Hall

College of Arts, Philosophy and Science—

Room 100, University Hall

College of Commerce and Journalism—

Room 103, Page Hall

College of Education—Room 211, University Hall

College of Engineering—Room 131, Lord Hall

Graduate School—Room 103, University Hall

Other offices are as follows:

Entrance Board—Room 107, University Hall

Registrar—Room 101, University Hall

Bursar—Room 116, University Hall

Appointment Committee—Room 107, University Hall



### SPECIAL COURSES

Certain courses not offered in the Summer Session may be obtained by special arrangement with the Director. For such courses a tuition fee will be charged by the instructor giving the work. If a demand for any special course shall come from ten or more persons before June 21, an effort will be made to add it to the regular list of courses.

### UNIVERSITY CREDITS

The maximum amount of work that may be carried for credit is eight semester hours except upon the approval of the Executive Committee of the College in which the student is registered. A course satisfactorily completed will carry with it the credit indicated in the announcement of the course.

### DEGREES

Full university credit is given for Summer Session work toward the degrees offered by the various colleges. For full information on requirements for degrees see the college bulletins. The requirement of not less than one year's residence in this University may be satisfied by four Summer Sessions or by two Summer Sessions and one semester. For the residence requirement of graduate students see p. 11.

Those desiring to work for a bachelor's degree should secure through the Secretary of the Entrance Board a copy of the appropriate college bulletin. Those desiring to work toward an advanced degree should secure a copy of the bulletin of the Graduate School.

## **FEES AND OTHER EXPENSES**

The Summer Session fee, which does not vary with the number of courses taken, is eight dollars. No one may attend any Summer Session lecture or exercise unless he has duly registered and paid the Summer Session fee, or unless the lecture or exercise has been announced as open to the public.

### **LABORATORY FEES**

Students are also required to pay for all materials consumed in laboratory work. To meet the cost of these materials a deposit of five dollars is required for each laboratory course, and four dollars for each course in shopwork. The deposit must be made at the Bursar's office before the work is begun. All laboratory supplies are sold to students at the General Store Room, Chemistry Hall, at first cost to the University, and charged against deposits. Any unused part of the deposit is refunded at the end of the Summer Session. For the use of a locker at the gymnasium a fee of fifty cents is charged, which includes the rental of towels.

### **ROOMS AND BOARD**

Board and lodging may be obtained near the campus. Rooms accommodating two persons may be rented at prices ranging from \$8.00 to \$12.00 a month. Room with board will cost from \$5.00 to \$6.00 a week. Meals may be obtained at convenient restaurants for \$3.50 a week. It is quite possible to cover all expenses, including books, but not including transportation, during the Session for about \$60. It is not necessary to engage a room in advance.

Men should make application for rooms to the University Y. M. C. A., in Ohio Union.

Women should make application for rooms to the Dean of Women, Orton Hall.

### **OXLEY HALL**

Oxley Hall, the residence for young women, will be open from June 21 to August 16. The Hall is situated on the campus at the northern terminus of the Neil Avenue street-car line.

It will be under the management of a house superintendent as during the academic year. The desire of the management is to provide modern facilities with a congenial homelike environment.

Each student is provided with the following articles: a study table, two chairs, chiffonier, mirror, book-case, and a single bed with mattress, pillows, and all necessary bedding.

Applications for rooms should be sent to Miss Josephine Matthews, House Superintendent, Oxley Hall, Columbus, Ohio.

References will be required of all applicants for rooms. Applicants should state whether they desire a single room, a double room with roommate, or a suite. As there are only a limited number of single and double rooms, it is not always possible to give the accommodations requested. The young women will be expected to take the daily care of their rooms.

A deposit of \$5.00 is required from all applicants for rooms in Oxley Hall for the Summer Session.

Charges—The rates have been fixed as follows:

Board and room for one person, \$48.00 for full session.

Board and double room for two persons, \$46.00 each for full session.

Board and suite for two persons, \$50.00 each for full session.

Board and suite for three persons, \$48.00 each for full session.

Board to persons living outside of the Hall will be furnished at the rate of \$4.25 a week.

#### OHIO UNION

The Ohio Union, the social center for the men of the University, will be open as usual during the summer term from 6:30 a. m. to 8:00 p. m. It contains a cafeteria dining-room, patronized by both men and women, open from 6:30 a. m. to 7:00 p. m. The billiard room, reading and writing rooms and lounging-room are open to men; its committee rooms are available for gatherings of men and women on application to the management. Situated on the campus, its dining-room is delightfully cool and has the advantage of being conveniently located with respect to the University buildings.

#### LIBRARIES, LABORATORIES, MUSEUMS

The University Library contains 168,000 bound volumes and several thousand pamphlets. The University Library will be open each week-day throughout the Session for the use of the students from 7:30 a. m. to 10 p. m. except on Saturdays, when it closes at 1 p. m. The



special libraries of all departments in which courses are given will be accessible to students.

Students must register at the Library before books may be withdrawn. No fee is charged for this registration.

In addition to the University Library there are located in Columbus, the Ohio State Archeological and Historical Society Library, the State Library and the Library of the Supreme Court at the Capitol, the Columbus Public Library, and the Columbus Public School Library. These libraries number approximately 500,000 volumes, all of which are available to University students.

The University has numerous well-equipped laboratories and museums for practical instruction in the sciences and technologic arts.

### THE STATE INSTITUTIONS

To permit Ohio teachers to become acquainted with the state institutions in Columbus, arrangements will be made for visits to the Capitol, the Penitentiary, and the Institutions for the Feeble-Minded, the Insane, the Deaf, and the Blind. Preceding each excursion, a lecture bearing directly upon the subject of the trip will be given by a member of the faculty. All students of the Summer Session are invited to join these excursions.

### CONVOCATION

One of the features of the Summer Session will be public addresses and entertainments in the University Chapel during the hour from 9:30 to 10:30 a. m. on Wednesdays. The addresses will be on subjects of popular and general interest, and will be given by members of the University Faculty and by prominent persons outside the University.

### RECREATION

The gymnasium will be open during the Summer Session and will afford opportunity for voluntary exercise and indoor games. The equipment and apparatus may be used and the lockers, showers and swimming pool will be open to those who wish to use them, subject

to a fee of fifty cents. The tennis courts will be kept in good condition for use and are open to all students registered during the session, upon the payment of the caretaker's fee of fifty cents. A base ball team will be organized in connection with the athletic courses, and other teams may be organized in other departments or clubs. A special track and field meet will be held near the close of the session open to all students.

All athletics and recreation work will be in charge of L. W. St. John, Professor of Physical Education.

Opportunity will be afforded students of the Summer Session to become better acquainted with each other as well as with the members of the faculty through several informal social gatherings.



## DEPARTMENTS OF INSTRUCTION

All courses are given for eight weeks, unless otherwise indicated. Excepting the few for which University credit is not given, they have the same numbers and give the same amount of credit as announced in the General Catalog of the University and the bulletins of the various colleges. But as the duration of the Summer Session is eight weeks (half the duration of a semester), one credit hour ordinarily means two hours of lecture or recitation each week (or four or more hours of laboratory work).

A normal schedule of work in the Summer Session means a total of eight credit hours. If more than eight credit hours is desired, the permission of the Executive Committee of the appropriate college must first be obtained; in the Colleges of Arts, Philosophy and Science and Education nine credit hours is the absolute maximum.

Except as otherwise indicated all instruction is given by members of the regular teaching staff of the University.

### CORRESPONDENCE WITH INSTRUCTORS

Prospective students who desire special information concerning individual courses are urged to correspond directly with the instructors in charge of the courses, addressing letters in care of the Ohio State University, Columbus, Ohio.

**Key to Abbreviations in Schedules of Classes:** A.—Athletic House; Br.—Brown Hall; Bi.—Biological Hall; B. Z. —Botany and Zoology Building; Ch.—Chemistry Hall; G.—Gymnasium; Ha.—Hayes Hall; H. F.—Horticulture and Forestry Hall; L.—Library; Obs.—Observatory; P.—Page Hall; Pav.—Judging Pavilion; Ph.—Physics Building; S.—Shop Building; T.—Townshend Hall; V. L.—Veterinary Laboratory; U.—University Hall.

### AGRICULTURAL CHEMISTRY

Office, 203 Townshend Hall

PROFESSOR LYMAN, MR. SALTER

**121. Food Inspection and Analysis.** Three to five credit hours.  
Mr. Salter.

Lectures on composition of foods and food adulteration. Laboratory practice embraces the analysis of foods, tea, coffee, syrup, spices, condiments, flavoring extracts, baking powder; analysis of fats

and oils, etc., and the examination of the same for adulteration. This course is designed to prepare for the analytical work connected with the state control of the sale of food stuffs, etc.

**125-126. Chemistry of Food and Nutrition.** Four or five credit hours. Mr. Lyman, Mr. Salter.

A study of the composition and analysis of foods; the chemistry of cookery and changes during cooking, as shown by analysis; the examination of cleaning materials, baking powders, the sanitary analysis of water; the chemistry of digestion and the effect of selected diet on metabolism.

#### FOR GRADUATES

**Prerequisite for Graduate Work:** At least two years of work in chemistry is prerequisite for graduate work in agricultural chemistry. This work must include some preparation in general and organic chemistry and quantitative analysis.

**230. Research Work.** Five credit hours. Mr. Lyman.

The research problem may be taken along any of the lines included in the above courses.

#### SCHEDULE OF CLASSES

121	L., Tu., Th., 7:30.....	T. 205	Salter
	Lab., to be arranged		
125-126	L., M., Tu., Th., F., 9:30.....	T. 205	Lyman, Salter
	Lab., M., Tu., Th., F., 1-4		
230	To be arranged.....	T. 205	Lyman

#### AMERICAN HISTORY

Office, 207 University Hall

PROFESSOR HOCKETT, ASSISTANT PROFESSOR SCHLESINGER

It is planned to arrange the courses offered in the Summer Sessions in a three-year cycle, so that a candidate for the Master's Degree may during three successive summers pursue a systematic plan of study leading to the degree. The courses which will probably be offered for 1918 and 1919 are starred; if these should not be given, equivalents will be provided. Courses 101 and 102 will be repeated annually; course 121 biennially; course 205 will be offered annually, the field of investigation varying.

**101. History of the United States. 1763-1829.** Three credit hours. Mr. Schlesinger.

**102. History of the United States. 1829-1912.** Three credit hours. Mr. Schlesinger.

American History 101 and 102 comprise a study of the history of the United States in which political, constitutional, and economic phases receive chief attention. Text-book, discussion and collateral readings.

It is desirable that American History 101 or an equivalent should precede American History 102. In exceptional cases, by permission of the department, students may be allowed to take both courses at the same time.

**\*103. The American Colonies in the Seventeenth Century.** Three credit hours.

**\*\*104. The American Colonies. 1700-1783.** Three credit hours.

**107. Formation of the Constitution.** Two credit hours. Prerequisite, American History 101-102. Mr. Hockett.

Beginning with a brief study of the constitutional ideas of Americans in the revolutionary period, the course traces the formation of the federal constitution by the convention of 1787, and discusses the constitutional problems involved in the establishment of the government. Lectures, discussion and assigned readings.

**108. Constitutional History of the United States.** Two credit hours. Prerequisite, American History 101-102. Mr. Hockett.

The chief controversies over the interpretation of the constitution and the effects of these controversies upon the evolution of the American constitutional system. Such questions are dealt with as the acquisition of territory, internal improvements, the tariff, slavery, and the relations of the nation and the states. Lectures, discussion and assigned readings.

**109. Early Political Parties in the United States.** Two credit hours. Prerequisite, American History 101-102. Mr. Schlesinger.

The radical party of the Revolution; the evolution and growth of national parties in the period thereafter until 1852; the relation of social and economic forces to parties; the influence of newspapers on public opinion; the rise of great party leaders. Lectures, discussion and research in contemporary newspapers and other material.

**\*\*110. Political Parties in the United States. 1852-1912.** Two credit hours.

\*1918. 103 will be given or 108 repeated, possibly both.

\*\*1919. 104 or 110 will be given, possibly both.



## FOR ADVANCED UNDERGRADUATES AND GRADUATES

**\*\*111. The Slavery Struggle in the United States.** Three credit hours.

**\*\*112. Reconstruction and its Results. 1863-1915.** Three credit hours.

**115. The History of the Westward Movement to 1812.** Three credit hours. Prerequisites, American History 101-102, and at least two other courses of a semester each in the social sciences. Mr. Hockett.

The westward advance of settlement from the Atlantic coast, across the Alleghanies, into the Ohio Valley, dealing with the causes of the movement, the rise of new communities, and the influence of western development upon national history and institutions. The course is essentially a study of the development of American society. Lectures, discussion and assigned readings.

**\*116. The History of the Westward Movement since 1812.** Three credit hours.

**\*121. The Teaching of American History.** Two credit hours.

**\*\*123. Recent History of the United States. 1870-1890.** Three credit hours.

**\*124. Recent History of the United States. 1890-1915.** Three credit hours.

## FOR GRADUATES

**205. Seminary in American History.** Two credit hours. Mr. Hockett.

Investigation and cooperative study of important phases of the history of the state of Ohio, accompanied by occasional lectures by the instructor. Efforts will also be made to meet the needs of individual students in the way of training in research and of guidance in working out theses for the degree of Master of Arts.

\*1918. 116 or 124 will be given.

\*\*1919. 123 or 111 will be given, possibly both. (An equivalent may be substituted for 111.)



## SCHEDULE OF CLASSES

101	Daily, 7:30 .....	U. 209	Schlesinger
102	Daily, 8:30 .....	U. 209	Schlesinger
107	M., Tu., Th., F., 8:30 .....	U. 205	Hockett
108	M., Tu., Th., F., 9:30 .....	U. 205	Hockett
109	M., Tu., Th., F., 10:30 .....	U. 209	Schlesinger
115	Daily, 7:30 .....	U. 205	Hockett
205	M., Tu., Th., F., 10:30 .....	L. 303	Hockett

## ANATOMY

Office, 105 Biology Building

PROFESSOR LANDACRE, DR. WARREN

**102. Comparative Anatomy of the Vertebrates.** Three to five credit hours. Mr. Landacre, Mr. Warren.

A lecture and laboratory course on the structure of the vertebrates, with special reference to the shark, frog, and cat.

The course is designed to lay a foundation for vertebrate anatomy and physiology, and fulfills the pre-medical requirements in anatomy.

**107. Introductory Neurology.** Three to five credit hours. Mr. Landacre, Mr. Warren.

A lecture and laboratory course on the gross and microscopic structure of the vertebrate spinal cord and brain. Special emphasis will be placed on conduction paths in order to lay a foundation for the study of brain physiology and psychology.

**203. Research Work.** Three to five credit hours. Mr. Landacre.

A conference and laboratory course. An opportunity is offered in this course for properly qualified students to begin investigation in subjects offered by the Department of Anatomy.

## SCHEDULE OF CLASSES

102	L., T., Th., 8:30 .....	Bi. 102	Landacre, Warren
	Lab., M., W., F., 9:30 to 12:30 for three hour credit		
	Tu., Th., 9:30 to 12:30 additional for five hour credit		
107	L., M., W., F., 1:30 .....	Bi. 102	Landacre, Warren
	Lab., M., W., F., 2:30 to 5:30 for three hour credit		
	Tu., Th., 1:30 to 4:30 additional for five hour credit		
203	To be arranged .....	Bi. 102	Landacre

**ATHLETICS**

(See Physical Education)

**BACTERIOLOGY**

Office, 202 Veterinary Laboratory

PROFESSOR MORREY, MISS MCCOY

Students selecting work in bacteriology must have had two years of work in college, or the equivalent, including one year in chemistry and one year in a biological science.

They will need to devote their entire time to the one subject. By so doing, the equivalent of eight semester hours may be secured in the eight weeks. This involves eight lectures and twenty-four laboratory hours each week as a minimum.

The instructor in charge must be consulted before courses are elected.

**FOR ADVANCED UNDERGRADUATES AND GRADUATES**

**107. General Bacteriology.** Four credit hours. Lecture, quiz and laboratory. Mr. Morrey, Miss McCoy.

This course is a prerequisite to all the elective courses in the department and is designed to prepare for special work. The lectures consider the botanical relationship of bacteria, their morphology, classification, effect of physical and chemical environment, action on food material, etc. The laboratory work includes preparation of the ordinary culture media and the making of cultures on these media, staining methods, and some typical biochemical actions.

**108. Pathogenic Bacteria.** Four credit hours. Lecture, quiz and laboratory. Prerequisite, Bacteriology 107. Mr. Morrey, Miss McCoy.

A study of the more important bacteria producing disease in man, including cultural and staining properties, methods of diagnosis, animal inoculation; ways of transmission and methods of protection against infectious disease; sanitation and the theories of immunity.

**SCHEDULE OF CLASSES**

- 107 M., Tu., W., Th., 7:30-9:30 for first four weeks... .. V. L. 102 Morrey  
 ..... V. L. 205 Morrey, McCoy  
 Lab., forenoons and afternoons.....  
 108 Second four weeks, same schedule as 107

**BOTANY**

Office, 102 Botany and Zoology Building

PROFESSOR TRANSEAU, ASSISTANT PROFESSOR STOVER

**101. General Botany.** Four credit hours. Text-books: Curtis's Nature and Development of Plants (4th edition), Schaffner's Laboratory Outlines for General Botany (4th edition). Mr. Stover.

**102. General Botany.** Four credit hours. Text-books: Curtis's Nature and Development of Plants (4th edition), Schaffner's Laboratory Outlines for General Botany (4th edition). Mr. Stover.

**125. Plant Physiology.** Four credit hours. Lectures and laboratory. Prerequisite, Botany 101-102 or equivalent. Text-book: Duggar's Plant Physiology. Mr. Transeau.

An experimental study of plant processes and the relation of these processes to environmental factors.

**147. Field Ecology.** Four credit hours. Prerequisite, Botany 101-102 or equivalent and one additional year of some biological science. Mr. Transeau.

Lectures and field work on the plant associations of Ohio. For the identification of the plants Gray's Manual, (8th edition) is used. The field trips will include a trip to the Hocking Valley, Buckeye Lake and possibly the Sandusky regions.

**SCHEDULE OF CLASSES**

101	M., Tu., W., Th., 8:30.....	B. Z. 208, 206 Mr. Stover Lab., M., Tu., W., Th., 1:30-3:30
102	M., Tu., W., Th., 9:30.....	B. Z. 208, 206 Mr. Stover Lab., M., Tu., W., Th., 1:30-3:30
125	Tu., W., Th., 1:30-5:30.....	B. Z. 110, 112 Mr. Transeau
147	F., 1:30-6:30; S., 1:30-6:30.....	B. Z. 108, 110, 112 Mr. Transeau

**CHEMISTRY**

Office, 100 Chemistry Building

PROFESSORS EVANS AND FOULK, ASSISTANT PROFESSORS BOORD AND OLIN, MR. HUMMELL, MR. YOUNG, MR. STEGEMAN, MR. BALZ

**109. General Chemistry.** Four credit hours. Two lectures, two quizzes and twelve laboratory hours each week. Text-book: McPherson



and Henderson's Course in General Chemistry and note book. Mr. Evans, Mr. Hummell, Mr. Young.

This course is arranged primarily for students who have had an elementary course in the general principles of chemistry, although it may be taken by those who have not had this training, provided that they are able to give some additional time to the work. It involves a general discussion of the principles of inorganic chemistry.

**110. General Chemistry and Qualitative Analysis.** (See Chemistry 117.)

**117. Qualitative Analysis.** Three credit hours. Two lecture-quizzes and twelve laboratory hours each week. Text-book: McPherson's Elementary Qualitative Analysis. Prerequisite, a course in general chemistry. Students taking this course and an additional hour of conference work may receive credit for Chemistry 110. (See General Catalog). Mr. Evans, Mr. Hummell, Mr. Young.

An elementary course in qualitative analysis.

**151. Organic Chemistry.** Two credit hours. Four lectures each week. Prerequisite, acceptable courses in general and analytical chemistry or permission of the instructor. Mr. Boord.

Lectures in organic chemistry. Beginning course.

**152. Organic Chemistry.** Two credit hours. Four lectures each week. Prerequisite, Chemistry 152, or its equivalent. Mr. Boord.

This is the continuation of Chemistry 151.

**153. Organic Chemistry.** Two or three credit hours. Twelve to eighteen laboratory hours each week. This course must be accompanied or preceded by Chemistry 151. Mr. Boord, Mr. Balz.

The preparation of typical organic compounds.

**154. Organic Chemistry.** Two or three credit hours. Twelve to eighteen laboratory hours each week. Prerequisite, Chemistry 153 or its equivalent. Mr. Boord, Mr. Balz.

This is the continuation of Chemistry 153.

#### FOR ADVANCED UNDERGRADUATES AND GRADUATES

**158. Physical Chemistry.** Three credit hours. Six lectures each week. Prerequisite, courses in quantitative analysis and organic chemistry, except by permission of the instructor. Mr. Olin.



This constitutes the second semester of the year's work in physical chemistry and should be preceded by the first semester's course or its equivalent.

**161. Physical Chemistry.** Two or three credit hours. Eight to twelve laboratory hours each week. Prerequisite, permission of the instructor. Mr. Stegeman.

A beginning course in physico-chemical measurements.

**165. Quantitative Analysis.** Two credit hours. Four recitations each week. Prerequisite, a year's work in quantitative analysis. Mr. Foulk.

Advanced course. A general survey of the methods of quantitative analysis.

**169. Quantitative Analysis.** Three to five credit hours. Two conferences and sixteen to twenty-eight laboratory hours each week. Prerequisite, a year's work in quantitative analysis. Mr. Foulk.

Advanced course. Laboratory work in advanced quantitative analysis.

**176. Sanitary Analysis.** Three credit hours. Four lectures and six laboratory hours each week. Prerequisite, a year's work in quantitative analysis. Mr. Foulk.

A study of the methods of sanitary and industrial water analysis and the interpretation of results.

**187. Inorganic Preparations.** Two or three credit hours. Twelve to eighteen laboratory hours each week. Prerequisite, a course in general chemistry. Mr. Stegeman.

A course in the preparation of a limited number of compounds chosen so as to give practice in the different kinds of manipulation involved in the preparation of inorganic compounds.

#### FOR GRADUATES

**205. Organic Chemistry.** Three to five credit hours. Advanced course. Library, conference and laboratory work. Prerequisite, Chemistry 153-154, except by special permission of the instructor. Mr. Boord.

Practice in the quantitative determination of the elements present in organic compounds. Special attention is also given to some of the more difficult organic preparations.

**218. Organic Chemistry.** Seminary. Two credit hours. Pre-requisite, permission of the instructor. Mr. Evans.

Special topics in organic nitrogen compounds.

**235-236. Research.** Four to eight credit hours. This course is arranged for students prepared to do advanced work. It is especially adapted to those who are pursuing work for a graduate degree. Special problems will be outlined for each student. Mr. Evans, Mr. Foulk, Mr. Boord, Mr. Olin.

### SCHEDULE OF CLASSES

109	Lecture, M., Th., 11:30.....	Ch. 200	Evans
	Quiz, Tu., F., 11:30.....	Ch. 101	Hummell
	Laboratory open daily, 8:30 to 11:30.....		
110	Conference, to be arranged.....		Evans, Hummell
117	Lecture-Quiz, Tu., Th., 8:30.....	Ch. 200	Evans, Hummell
151	Lecture-Quiz, M., Tu., Th., F., 7:30.....	Ch. 101	Boord
152	Lecture-Quiz, M., Tu., Th., F., 9:30.....	Ch. 101	Boord
153	Laboratory open daily, 1:30 to 4:30.....	Ch. 102	Boord, Balz
154	Laboratory open daily, 1:30 to 4:30.....	Ch. 102	Boord, Balz
158	Lecture-Quiz, M., Tu., W., Th., F., S., 8:30.....	Ch. 207	Olin
161	Laboratory open daily, 1:30 to 4:30.....	Ch. 201	Stegeman
165	Quiz, Tu., W., Th., F., 11:30.....	Ch. 207	Foulk
169	Conference, to be arranged.....		Foulk
176	Lecture-Quiz, Tu., W., Th., F., 10:30.....	Ch. 207	Foulk
187	Laboratory open daily, 1:30 to 4:30.....	Ch. 208	Stegeman
205	To be arranged.....		Boord
218	To be arranged.....		Evans
235-236	Conferences to be arranged.....		Evans, Foulk, Boord, Olin

### CIVIL ENGINEERING

ASSISTANT PROFESSORS SCHLESINGER AND SLOANE,  
MR. NEILSON, MR. FAEHNLE

**104 or 111. Summer Field Work in Surveying.** June 14 to July 12, six days a week, ten hours a day.

The prerequisites for Civil Engineering 104 are courses of collegiate grade in elementary land and railroad surveying and topographic drawing, or their equivalents. The prerequisites for Civil Engineering 111 are Civil Engineering 104 and topographic surveying, or their equivalents.

The students are usually taken into camp in a rough, broken country, and given a thorough drill in elementary surveying in Civil Engineering 104, and in advanced work in Civil Engineering 111. The registration fee is eight dollars. A fee of twenty dollars is charged to cover subsistence and transportation.

*Note*—This course begins one week earlier than the regular work of the Summer Session.

## COMPARATIVE LITERATURE AND LANGUAGE

Office, 307 University Hall

PROFESSOR BOLLING

**195. Principles of the Historical Study of Language.** Two credit hours. Not open to first and second year students. Mr. Bolling.

Lectures on the elements of linguistic science, together with an outline of the Indo-European family of languages.

### SCHEDULE OF CLASS

195 M., Tu., Th., F., 8:30.....U. 306 Bolling

## ECONOMICS AND SOCIOLOGY

Office, 102 Page Hall

PROFESSORS LOCKHART AND RUGGLES, PROFESSOR TODD OF MIAMI UNIVERSITY, ASSOCIATE PROFESSOR PERSONS OF WASHINGTON UNIVERSITY AND ASSOCIATE PROFESSOR CHAPIN OF SMITH COLLEGE

### ECONOMICS

**135. Principles of Economics.** Three credit hours. Prerequisite, thirty semester hours of college work. Mr. Lockhart, Mr. Ruggles.

The principles which govern man in his business activities; the production, consumption, and distribution of wealth; the market and how goods are valued in it; the services of land, labor, and capital; the laws of rent, interest, wages, prices and profits, and the problems resulting.

**136. Principles of Economics.** Three credit hours. Prerequisite, Economics 135 or its equivalent. Mr. Todd.



A study of present day economic problems. The corporation, labor union, transportation, tariff and taxation problems, socialism, government expenditures, the relation of the state to industry, and its participation in industrial activities, will be some of the problems for investigation.

**139. Elements of Accounting.** Three credit hours. Prerequisite, registration in Economics 135-136. Mr. Todd.

This course should be followed by Economics 171.

In this course the student is made familiar with the essentials of accounting as exemplified in the main types of bookkeeping. The main object is to give the student such a grasp of fundamental principles as will enable him to understand the significance of accounts. In order to make direct application of these principles he will be given abundant practice in recording business transactions and preparing and analyzing business statements.

#### FOR ADVANCED UNDERGRADUATES AND GRADUATES

**154. Banking and Foreign Exchange.** Three credit hours. Prerequisite, Economics 135 and registration in Economics 136. Mr. Lockhart.

A study of the business of banking with special reference to bank loans and investments. The growth of the credit system and the development of banking; the distinctive services of commercial and investment banks to the business community; the varieties of credit instruments. Legal regulation of the organization and business of banks. The working organization of the various types of banking institutions, especially commercial banks. The inter-relations of individual banks and of classes of banks; domestic and foreign exchange. Lectures, readings and practical exercises.

**167. Railway Economics.** Three credit hours. Prerequisite, Economics 135-136. Mr. Ruggles.

The history and public character of transportation. Early methods of transportation. Roads, rivers and canals, and their place in the modern transportation system. Railway geography of the United States and the leading railway systems. The theory of railway rates and its application to rate schedules. Railway classification and discriminations. Railway pools, mergers and consolidations. Railway commissions and the problem of public regulation. Foreign railway systems and methods. The problem of government ownership at home and abroad.

**SOCIOLOGY**

**101. Principles of Sociology.** Three credit hours. Prerequisite, thirty semester hours of college work. Mr. Chapin.

The fundamental principles of sociology will be treated with special reference to the needs of teachers. A study of the physical environment of man, heredity and racial characteristics, the evolution of society, the social mind, group formation and structure.

**102. Principles of Sociology.** Three credit hours. Prerequisite, Sociology 101 or its equivalent. Mr. Persons.

A study of social problems and institutions: the family, the school, the church, rural and city life, etc; a study of dependents and defectives; application of sociological principles to practical problems.

**104. The Immigrant.** Three credit hours. Prerequisite, Sociology 101-102. Mr. Persons.

The questions of the causes and sources of migration, of the distribution of peoples, of transport lines, provision for hauling immigrants, immigration laws and their enforcement, and the assimilation of nationalities in the United States all receive general consideration. Individual students make a particular study of special races.

**SCHEDULE OF CLASSES****Economics**

135	Daily, 7:30 .....	P. 100	Lockhart
135	Daily, 8:30.....	P. 101	Ruggles
136	Daily, 7:30 .....	P. 106	Todd
139	Daily, 10:30.....	P. 101	Todd
154	Daily, 8:30.....	P. 100	Lockhart
167	Daily, 7:30.....	P. 101	Ruggles

**Sociology**

101	Daily, 10:30.....	P. 106	Chapin
101	Daily, 11:30.....	P. 100	Chapin
102	Daily, 11:30.....	P. 106	Persons
104	Daily, 10:30.....	P. 100	Persons

**ENGINEERING DRAWING**

Office, 205 Brown Hall

ASSISTANT PROFESSORS MEIKLEJOHN AND WILLIAMS, MR. SVENSEN

**101. Elementary Mechanical Drawing.** Two credit hours. Text-book: French's Engineering Drawing. Mr. Williams.

Use of drawing instruments, geometrical drawing, elementary projections and developments.

**102. Mechanical Drawing.** Three credit hours. Text-books: French and Meiklejohn's Essentials of Lettering and French's Engineering Drawing. Mr. Svensen.

Lettering for draftsmen, orthographic, isometric, and oblique projections and developments.

In Engineering Drawing 101-102 special attention is given to teachers preparing for drawing or manual training.

**103. Descriptive Geometry.** Three credit hours. Text-book: Smith's Practical Descriptive Geometry. Mr. Meiklejohn.

Lectures, recitations, and drawing. This course is the equivalent of the regular course for mechanical and electrical engineers.

**104. Machine Sketching.** Three credit hours. Mr. Williams.

Freehand drawing of machine details, dimensioning, etc. This course may be taken concurrently with Engineering Drawing 103.

**105. Descriptive Geometry.** Three credit hours. Text-book: Smith's Practical Descriptive Geometry. Mr. Meiklejohn.

**107. Descriptive Geometry.** Three credit hours. Text-book: Smith's Practical Descriptive Geometry. Mr. Meiklejohn.

**111. Technical Drawing.** Two credit hours. Mr. Williams.

Commercial working drawing, machine designing, detailing, tracing and blue printing. May be taken concurrently with Engineering Drawing 104. An advanced course for teachers of drawing and manual training.

**113. Elementary Drafting.** Four credit hours. Text-book: French's Engineering Drawing. Mr. Svensen.

A course especially adapted to the needs of manual training students and teachers.

**114. Mechanical Drafting.** Three credit hours. Text-book: French's Engineering Drawing. Mr. Svensen.

A course in practical drafting, detailing, tracing and blue printing, etc. May be taken by manual training teachers who have a preliminary knowledge of drawing.



## SCHEDULE OF CLASSES

101	M., Tu., Th., F., 7:30 to 9:30.....	Br. 202 Williams
102	M., Tu., W., Th., F., 7:30 to 9:30.....	Br. 201 Svensen
103	M., Tu., W., Th., F., 7:30 to 9:30.....	Br. 203 Meiklejohn
104	M., Tu., W., Th., F., 1:30 to 3:30.....	Br. 202 Williams
105	M., Tu., W., Th., F., 1:30 to 3:30.....	Br. 203 Meiklejohn
107	M., Tu., W., Th., F., 1:30 to 3:30.....	Br. 203 Meiklejohn
111	M., Tu., Th., F., 10:30 to 12:30.....	Br. 201 Williams
113	To be arranged.....	Br. 201 Svensen
114	M., Tu., W., Th., F., 10:30 to 12:30.....	Br. 202 Svensen

## ENGLISH

Office, 103, 203, Physics Building

PROFESSORS MCKNIGHT AND GRAVES, PROFESSOR SCHNEIDER OF  
WITTENBERG COLLEGE, ASSISTANT PROFESSORS BECK AND  
KETCHAM, MR. CRAIG, MR. WILEY

**101. Paragraph Writing: Description and Narration.** Two credit hours. Text-books: Scott and Denney's Paragraph Writing, and Duncan, Beck, and Graves's Specimens of English Composition. Section 1 (exclusively for teachers), Mr. Wiley; section 2, Mr. Craig.

Daily themes. Each theme will be read, criticised and returned to the writer.

**104. Paragraph Writing: Exposition and Argumentation.** Two credit hours. Text-books: Scott and Denney's Paragraph Writing, and Duncan, Beck, and Graves's Specimens of English Composition. Section 1 (exclusively for teachers), Mr. Craig; section 2, Mr. Wiley.

Daily themes. Each theme will be read, criticised and returned to the writer.

**128. English Words.** Two credit hours. Text-book: Greenough and Kittredge's Words and their Ways in English Speech. Mr. McKnight.

Attention will also be given to usage, to the origin of modern idioms and to historical grammar.

**131. Survey of English Literature.** Three credit hours. Mr. Beck.

The outline of the history of English literature will be given by lecture. The following will be studied: Shakespeare's Tempest,

Othello, Romeo and Juliet; Milton's Paradise Lost, Books 1, 2; Addison's Essays; Pope's Rape of the Lock; Scott's Kenilworth; Carlyle's Essay on Burns. Text: Manley's English Prose and Poetry (1 vol.).

**133. Survey of American Literature.** Three credit hours. Mr. Beck.

The outline of the history of American literature will be given by lecture. The following will be studied: Irving's Knickerbocker's History of New York; Cooper's Deerslayer; Hawthorne's Scarlet Letter; Poe's Tales and Poems; and the characteristic poems of Bryant, Emerson, Whittier, Longfellow, Lowell, Lanier and Whitman. Text: Page's Chief American Poets.

**138. Nineteenth Century Essayists.** Two credit hours. Prerequisite, English 131 or equivalent. Mr. Schneider.

Reading in Lamb, DeQuincey, Hazlitt, Carlyle, Ruskin, Arnold, Newman, Pater, Stevenson, and the more recent English essayists.

**141. Nineteenth Century Poetry.** Three credit hours. Prerequisite, English 131 or equivalent. Mr. Graves.

The poetry of Wordsworth, Shelley, Keats, and their contemporaries.

#### FOR ADVANCED UNDERGRADUATES AND GRADUATES

**151. Old English.** One credit hour. No prerequisite course. Text: Bright's Anglo-Saxon Reader. Mr. Schneider.

**157. Versification.** Three credit hours. Prerequisite, a year course of reading in English poetry. Mr. Graves.

The theory of verse structure with a history of the principal English rhythms and practice in verse composition.

**168. Shakespeare: Comedies and Romances.** Three credit hours. Prerequisite, English 131. Mr. Schneider.

On each play there are two lectures and one quiz. Any good edition of Shakespeare may be used.

**169. Modern English Drama in the Eighteenth Century.** Two credit hours. Prerequisite, a year course in English drama. Mr. Schneider.

Lectures on the history of the drama from 1642 to 1800 accompanied by the reading and criticism of representative plays by Dryden, Otway, Congreve, Farquhar, Addison, Steele, Gay, Fielding, Goldsmith, Sheridan. All of the plays will be found in Tupper's Repre-

sentative English Dramas from Dryden to Sheridan, Oxford University Press.

**181. The Teaching of English.** Two credit hours. Mr. Beck.

This course will be devoted equally to the teaching of English Composition and of English Classics in the secondary schools. Some of the topics to be discussed are the following: aims of English teaching; preparation of the English teacher; individual instruction; the use of the class-hour; the use of conference periods; the use of "models"; the relation of composition work to the study of English Classics; problems raised by vocational education; the grammar question; usage; high school journalism; the handling of themes; mechanical aids; oral composition; the reports of the National Council; recent treatises and magazine articles on the teaching of English. Teachers are requested to bring with them a half dozen or more themes of their pupils, and a number of school editions of well known classics.

**FOR GRADUATES**

**201. History of the Short Narrative in English.** Two credit hours. Mr. Graves.

A study of types of the short story in English from the Middle Ages to the present.

**210. English Usage.** Two credit hours. Mr. McKnight.

A consideration of disputed points in English syntax, with an attempt to discover what is the basis of authority and what has been the historical usage.

**219. Discussions of Dissertations.** Two credit hours. Mr. Graves.

Graduate students preparing theses will meet for conference on their work.

*Note.*—In 1918 the following courses will be repeated: 101, 104, 131, 133, 181. For the other courses announced above the following will probably be substituted: Eighteenth Century Literature, Tennyson and Browning, Shakespeare's Tragedies, English Drama in the Nineteenth Century, Seventeenth Century Literature, The Novel, The Later Poetry.



## SCHEDULE OF CLASSES

101	M., Tu., Th., F., (Teachers only) 8:30.....	Ph. 202	Wiley
101	M., Tu., Th., F., 8:30.....	Ph. 5	Craig
104	M., Tu., Th., F., (Teachers only) 9:30.....	Ph. 5	Craig
104	M., Tu., Th., F., 9:30.....	Ph. 204	Wiley
128	M., Tu., Th., F., 8:30.....	Ph. 302	McKnight
131	Daily, 10:30.....	Ph. 104	Beck
133	Daily, 8:30.....	Ph. 104	Beck
138	M., Tu., Th., F., 8:30.....	Ph. 102	Schneider
141	Daily, 11:30.....	Ph. 204	Graves
151	W., S., 8:30.....	Ph. 102	Schneider
157	Daily, 8:30.....	Ph. 204	Graves
168	Daily, 10:30.....	Ph. 102	Schneider
169	M., Tu., Th., F., 9:30.....	Ph. 102	Schneider
181	M., Tu., Th., F., 9:30.....	Ph. 104	Beck
201	S., 9:30 to 11:30.....	L. 105	Graves
210	W., 10:30 to 12:30.....	L. 105	McKnight
219	W., 8:30 (other hours arranged).....	L. 104	Graves

## PUBLIC SPEAKING

## ASSISTANT PROFESSOR KETCHAM

**121. Public Speaking.** Two credit hours. Prerequisite, English 101, 104. Mr. Ketcham.

The principles of public speaking. The methods of securing attention, and maintaining the interest of an audience. Practice in the application of principles and methods to simple expository and argumentative addresses. In the 8:30 o'clock section special attention will be given to the problems of those teachers who are conducting courses in public speaking. In all sections the exercises will include the preparation and presentation of addresses for teachers' conventions, academic occasions, etc. Each section is limited to sixteen members.

**122. Debating.** Two credit hours. Prerequisite, English 101, 104. Mr. Ketcham.

Practice in making and presenting oral arguments. The theory and practice of argumentation and debate. Class debates on subjects of current interest. Special attention will be given to the needs of those teachers who are now coaching, or who expect to coach high school debating teams. The class is limited to sixteen members.

## SCHEDULE OF CLASSES

121	M., Tu., Th., F., 7:30.....	Ph. 304	Ketcham
121	M., Tu., Th., F., 8:30.....	Ph. 304	Ketcham
121	M., Tu., Th., F., 10:30.....	Ph. 304	Ketcham
122	M., Tu., Th., F., 11:30.....	Ph. 304	Ketcham

## EUROPEAN HISTORY

Office, 204 University Hall

PROFESSORS MCNEAL AND PERKINS, PROFESSOR ALLISON OF  
COLGATE UNIVERSITY AND PROFESSOR KLINGBERG OF  
THE UNIVERSITY OF SOUTHERN CALIFORNIA

The Department of European History expects to offer regularly courses in Greek and Roman history in the Summer Sessions of alternate years, and also to alternate European History 101 (Medieval History) with European History 102 (Modern History) and European History 103 (History of England to 1485) with European History 104 (History of England since 1485), as these are fundamental courses in their several fields. It is hoped that European History 152 (The Teaching of European History) may be repeated biennially. For other courses to be offered in Summer Sessions a three-year cycle is contemplated, so that candidates for the master's degree expecting to major in this department may be able to complete the requirements for the degree in three successive summers. The courses that will probably be offered for 1918 and 1919 are starred in the following list; if for any reason these should not be given equivalents will be provided.

**101. Medieval History.** Three credit hours. Mr. Perkins.

This course is a general survey of European history from the fall of the Roman Empire to about 1500 A. D. Some of the topics considered are the rise of Christianity and the Church, feudalism and chivalry, the life of the people in country and town, the rise of the great European nations, and the renaissance. Topical readings and subjects for discussion are assigned from a syllabus used in this course.

**\*102. Modern History from 1500 A. D.** Three credit hours. This continues up to the present time the survey of European history started by course 101.

**103. History of England to the Middle of the Sixteenth Century.** Three credit hours. No prerequisite for second, third, and fourth year students. Mr. Perkins.

This course followed by European History 104 is a general survey of English history in its broader aspects. It is intended for those wishing general information, for students of English literature and American history, and for those preparing to teach history in secondary schools. The course is based on a printed outline in which topical readings and subjects for discussion are suggested.

**\*104. History of England since 1485 A. D.** Three credit hours.

**\*105. History of Greece.** Three credit hours.

**106. History of Rome.** Three credit hours. No prerequisite for second, third and fourth year students. Mr. McNeal.

**\*119. History of Germany.** Two credit hours.

**\*121. History of France.** Two credit hours.

#### FOR ADVANCED UNDERGRADUATES AND GRADUATES

Prerequisite, European History 101 and 102 or equivalents.

**115a. The Expansion of Europe since 1785.** Two credit hours. Mr. Klingberg.

A brief survey of European discoveries, explorations, and settlements in Australasia, Asia, Africa, etc.; the rivalries of European powers; the growth of colonies; and the causes of revolt or separation from the mother countries.

**125. The History of the Church in Western Europe.** Three credit hours. Mr. Allison.

This course will be broadly cultural and will be vitalized by some intimate contact with several of the great characters who have influenced the development of Western Civilization.

**\*108. Medieval Civilization.** Two credit hours.

**\*109. The Age of the Renaissance, 1250 to 1500 A. D.** Two credit hours.

**110. The Period of the Reformation.** Two credit hours. Mr. Allison.



While attention will be paid in this course to the larger religious movements, special attention will be given to the national tendencies and those aspects of the period which have been perpetuated in the later developments of Europe and America.

**152. The Teaching of European History.** Two credit hours. Prerequisite, four semester courses in history, preferably European History 101-102 and either European History 103-104 or 105-106. Required of all who expect to ask the department for recommendation to a teaching position. Mr. Perkins.

This course is intended to give practical preparation and training to those planning to teach history in secondary schools. Not only the underlying principles and theories, but also practical devices for teaching will be taken up. Text-books and books for reference reading will be compared and criticised, lesson plans will be made, and all the accessories of history teaching will be discussed. Henry Johnson, *The Teaching of History*, will be needed by every member of the class, but references will be assigned to other books and magazine articles.

#### FOR GRADUATES

**203. Seminary in European History.** Two credit hours. Mr. Allison.

The topic for investigation will be: "The Relations of Church and State in England in the Tudor and Stuart Periods."

#### SCHEDULE OF CLASSES

101	Daily, 7:30.....	U. 201	Perkins
103	Daily, 9:30 .....	U. 201	Perkins
106	Daily, 8:30.....	U. 201	McNeal
110	M., Tu., Th., F., 9:30.....	U. 202	Allison
115a	M., Tu., Th., F., 11:30.....	U. 201	Klingberg
125	Daily, 1:30.....	U. 201	Allison
152	M., W., 3:30 to 5:30.....	U. 202	Perkins
203	Tu., Th., 3:30 to 5:30.....	L. 304	Allison

#### FRENCH

(See Romance Languages and Literatures)

**GERMAN**

Office, 317-318 University Hall

PROFESSOR EISENLOHR, ASSISTANT PROFESSORS

BARROWS, LEWISOHN, AND KEIDEL

**101. Elementary German.** Four credit hours. Mr. Keidel.

**102. Elementary German.** Four credit hours. Mr. Eisenlohr.

**103. Intermediate German.** Four credit hours. Prerequisite, German 101-102 or two entrance units. Mr. Lewisohn.

Prose reading, topical review of grammar, oral and written composition.

**104. Easy Classical Reading and Composition.** Four credit hours. Prerequisite, German 103 or three entrance units. Mr. Keidel.

Reading of (a) a classical drama supplemented by discussions and lectures on the structure of the drama, its characters and its historical background; (b) other literature of the classical period or the nineteenth century; prose composition.

**118. Schiller: Introduction to Life and Works.** Two credit hours. Mr. Lewisohn.

Wallenstein and Dreissigjaehriger Krieg.

**131. Conversation and Prose Composition.** Two credit hours. Prerequisite, consent of the instructor. Miss Barrows.

**FOR ADVANCED UNDERGRADUATES AND GRADUATES**

**159. Heine: Introduction to Life and Works.** Two credit hours. Mr. Lewisohn.

**172. Advanced Prose Composition.** Two credit hours. Prerequisite, consent of the instructor. Mr. Eisenlohr.

**175. Phonetics.** Two credit hours. Not open to first and second year students. No prerequisite. Miss Barrows.

A study of speech sounds with special reference to German, French and English. The apparatus of the Phonetics' Laboratory will be at the disposal of the students.

**177. Middle High German.** Two credit hours. Mr. Eisenlohr. Introductory course. Grammar and selected readings.

## FOR GRADUATES

**212. Methodology.** Two credit hours. Prerequisite, German 173 or teaching experience. Mr. Evans.

A critical investigation of the methods of teaching German. Extensive reading, lectures, written reports and discussions.

## REQUIREMENTS FOR THE M. A. DEGREE

Certain requirements for the degree of Master of Arts are regarded as essential and must be met by all candidates. These are represented by the following courses, described in the bulletin of the Graduate School: 153-154 (at least the 18th and 19th centuries), 171-172, 173 or 212, 175, 177-178. In order that candidates for the M. A. degree may know in advance which of these required courses are to be offered in any given year, the following announcement is made:

For the Summer 1917: 172, 212, 177.

1918: 154, 173, 178.

1919: 171, 173, 178.

## DEUTSCHER VEREIN

A German Club will be formed and weekly meetings of an informal, social character held. Stereopticon lectures, German songs and games, German conversation.

## DEUTSCHES HAUS

A DEUTSCHES HAUS, in which German will be used exclusively and German newspapers and periodicals will be kept on file, will be conducted by the German Department.

It is a recognized fact that the lack of ability to use the spoken language is the weakest point in the equipment of the average teacher of German. Two months spent in a house where only German is spoken will do much to remedy this defect.

The cost per individual will not exceed \$12 a month for room. Board will also be offered and will be open to a limited number of men and women not living in the house. The cost for board will not exceed \$4.50 a week.

Application should be made at once to Professor Sarah Barrows, Department of German, Ohio State University.



## SCHEDULE OF CLASSES

101	M., Tu., W., Th., F., 7:30; Tu., Th., F., 9:30.....	U. 309	Keidel
102	M., Tu., W., Th., F., 7:30; Tu., Th., F., 9:30..	U. 319	Eisenlohr
103	M., Tu., W., Th., F., 8:30; M., W., F., 10:30..	U. 309	Lewisohn
104	M., Tu., W., Th., F., 8:30; M., W., F., 10:30....	U. 320	Keidel
118	M., Tu., Th., F., 8:30.....	U. 310	Lewisohn
131	M., Tu., Th., F., 7:30.....	U. 320	Barrows
159	M., Tu., Th., F., 11:30.....	U. 308	Lewisohn
172	M., Tu., Th., F., 10:30.....	U. 319	Eisenlohr
175	M., Tu., Th., F., 9:30.....	U. 320	Barrows
177	M., Tu., Th., F., 8:30.....	U. 319	Eisenlohr
212	To be arranged.....	L. 308	Evans

## GREEK LANGUAGE AND LITERATURE

Office, 307 University Hall

PROFESSOR BOLLING

## FOR ADVANCED UNDERGRADUATES AND GRADUATES

**199. Proseminary in Greek.** Two credit hours. Prerequisites, one year of elementary Greek, and the equivalent of at least four semester courses of college Greek. Mr. Bolling.

The purpose of this course is to introduce students to the methods of graduate work. Part of the time will consequently be devoted to an explanation of the principles upon which the advanced study of Greek texts is based and to the giving of information about the chief works used as tools in such investigations. These principles will receive illustration in the remainder of the work which will comprise lectures on the Homeric question, interpretation of portions of the text from the point of view of Historical Grammar, and rapid readings of considerable parts of the poems. Individual attention will be given to the needs of each student, and problems adapted to their preparation will be assigned for investigation.

The student should provide himself in advance with a complete edition of the Homeric poems, preferably the Oxford text of Monro-Allen.

## SCHEDULE OF CLASS

199	M. Tu., Th., F., 10:30.....	L. 311	Bolling
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**HISTORY AND PHILOSOPHY OF EDUCATION**

Office, 100 Hayes Hall

PROFESSOR ANDERSON, ASSOCIATE PROFESSOR MEAD OF  
OHIO WESLEYAN UNIVERSITY

**101. History of Education.** Three credit hours. Prerequisite, six semester hours of European history, philosophy, or psychology. Mr. Mead.

A survey of the development of educational theory and practice among the ancient Greeks and Romans and among the people of medieval Europe. Text-book: Graves's History of Education, Vols. 1 and 2.

**102. History of Education.** Three credit hours. Prerequisite, six semester hours of European history, philosophy or psychology. Mr. Anderson.

A survey of the development of educational theory and practice from the close of the Middle Ages to the present. Text-book: Graves's History of Education, Vols. 2 and 3.

**FOR ADVANCED UNDERGRADUATES AND GRADUATES**

**105. Educational Classics.** Two credit hours. Prerequisite, History of Education 101-102. Mr. Mead.

A study of the classical educational writings of the ancient Greeks and Romans. Each work is considered so far as possible in the light of the conditions amidst which it was produced.

**110. History of Education in the United States.** Two credit hours. Prerequisite, History of Education 101-102. Mr. Anderson.

A survey of the history of education in the United States since the American revolution.

**FOR GRADUATES**

**112. History of Industrial Education.** One credit hour. Prerequisite, History of Education 101-102 or equivalent. Mr. Anderson.

**121. Seminary in the History of Education.** One credit hour. Prerequisite, History of Education 101-102. Mr. Mead.

Students electing this course must first confer with the instructor.

## SCHEDULE OF CLASSES

101	Daily, 10:30.....	Ha. 101	Mead
102	Daily, 8:30.....	Ha. 101	Anderson
105	M., W., Th., F., 2:30.....	Ha. 101	Mead
110	M., Tu., Th., F., 9:30.....	Ha. 101	Anderson
112	Tu., F., 11:30 .....	Ha. 101	Anderson
121	M., 4:00-6:00 .....	L. 309	Mead

## INDUSTRIAL ARTS

(See Shopwork)

## JOURNALISM

Office, 225 Shop Building

PROFESSOR MYERS

The curriculum in journalism combines technical and cultural courses to afford the student an advantageous start in his profession. The purpose is to give him knowledge of the fundamentals of news gathering, writing, editing and making-up and to add to these a study of principles and ethics of journalism; and, secondly, to furnish a foundation in history, political science, economics, sociology, English and other languages, subjects of both practical and cultural value. Students of journalism are required, as part of their course, to do work on the University newspaper, The Lantern, owned by the University and printed during the Summer Session twice a week in its own plant under the direction of the Department of Journalism.

**101. News-collecting and News-writing.** Three credit hours. Two lectures and laboratory. Mr. Myers.

Attention is given to vocabulary and style with exercise in the gathering and writing of news for publication in the University daily newspaper, which is organized and operated as nearly like a city newspaper as possible.

**105. Newspaper Practice.** Three credit hours. Two lectures and laboratory. Prerequisite, Journalism 101-102. Mr. Myers.

An advanced course for students who have completed Journalism 101-102 or who have done equivalent work. Practice in copyreading, head line writing and making-up. Various phases of newspaper-making are considered, including practice on the various desks.



**109. Newspaper Problems.** Two credit hours. Two lectures and laboratory. Prerequisite, Journalism 105-106. Mr. Myers.

Consideration in seminary of the problems of newspaper direction as far as they may be taken up on a campus newspaper.

**113. Newspaper Ethics and Principles.** Two credit hours. Prerequisite, Journalism 101-102. Mr. Myers.

Study of the rights and duties of the press, its morals, its relation to the public, and its part in community, state and national life.

#### SCHEDULE OF CLASSES

101	M., W., 8:30.....	S. 201	Myers
105	Tu., Th., 9:30.....	S. 201	Myers
109	To be arranged.....	S. 201	Myers
113	M., Tu., Th., F., 10:30.....	S. 201	Myers

#### LATIN

Office, 307 University Hall

PROFESSORS DERBY AND ELDEN

**102. Horace: Odes.** Four credit hours. Mr. Elden.

**113. Course for Teachers.** Vergil: Aeneid, Books V and VI; Selections from the Eclogues; lectures on the transmission of the text, prosody, minor poems; Vergil in the Middle Ages, etc. Two credit hours. Mr. Elden.

**115. Latin Prose Composition.** Three credit hours. Mr. Derby. Textbook: Mather & Wheeler, Latin Prose Writing, American Book Co.

**122. Roman Satire, Juvenal.** Two credit hours. Mr. Elden.

#### SCHEDULE OF CLASSES

102	M., Tu., W., Th., F., 8:30; Tu., Th., F., 9:30....	U. 316	Elden
113	M., Tu., Th., F., 10:30.....	U. 316	Elden
115	Daily, 7:30.....	U. 316	Derby
122	M., Tu., Th., F., 11:30....	U. 316	Elden

**MANUAL TRAINING**

Office, 212 Shop Building

PROFESSOR USRY, MR. SMITH

The Department of Manual Training is prepared to give courses for the teacher in service, for the student preparing to teach and for the administrative and supervisory officers. It is the aim to make the courses as practical as possible, and also to correlate the practical work with modern educational theory.

Students interested in Manual Training will find the work in Engineering Drawing and Shopwork by referring to those departments.

For Engineering Drawing, Page 32. Note particularly Engineering Drawing 113 and 114.

For courses in Shopwork, Page 65. Note particularly in Woodworking, Elementary Woodwork 133, Cabinet Making 113, Wood Turning 129, Pattern Making 130, and Advanced Cabinet Making 131.

For Founding, Shopwork 105.

For Forging, Shopwork 115.

For Machine Work, Shopwork 119.

Students should consult Mr. Usry before selecting their courses.

**\*111. Teaching of Manual Training.** Three credit hours.

**112. Materials, Methods and Equipment.** Three credit hours.  
Mr. Usry.

Organization, equipment and its care, supplies, courses of study, methods of procedure, and presentation of the subject.

**117. Constructive Design.** Two credit hours. Prerequisite, Shopwork 113 and Engineering Drawing 113, or their equivalents.  
Mr. Usry.

Practical problems in the design and construction of projects in wood; the properties of various woods; suitability of material to project. These problems will cover work in the upper elementary grades or intermediate school and the secondary school.

**118. Constructive Design.** Two credit hours. Prerequisite, Manual Training 117, or its equivalent. Mr. Usry.

A continuation of Manual Training 117.

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\*Not given in the summer of 1917.

**123. Special Problems in Manual Training.** Two credit hours. Open to seniors or graduates, or to men of experience acceptable to the instructor. Mr. Usry.

The course is primarily designed for acting or prospective administrative officers. Readings and discussions covering the general theory and the relations of manual training to the elementary and secondary schools. Designed to make the superintendent or principal thoroughly conversant with what ought to be expected from the work: equipment, cost, selection of teachers, salaries, and ways to help the teacher in service.

#### SCHEDULE OF CLASSES

112	M., Tu., Th., F., 4:30.....	S. 212	Usry, Smith
117	M., Tu., Th., F., 1:30-4:30.....	S. 212	Usry, Smith
118	M., Tu., Th., F., 1:30-4:30.....	S. 212	Usry
123	To be arranged .....	S. 212	Usry

#### MATHEMATICS

Office, 314 University Hall

PROFESSORS KUHN AND RASOR, ASSOCIATE PROFESSOR ARNOLD

**121. College Algebra and Trigonometry.** Three credit hours. Mr. Rasor.

**131. College Algebra and Trigonometry.** Five credit hours. Prerequisite, entrance algebra and geometry. Mr. Rasor.

**132. Plane Trigonometry and Analytical Geometry.** Five credit hours. Prerequisite, Mathematics 131. Mr. Rasor, Mr. Arnold.

**142. Calculus.** Five credit hours. Six recitations (each 1½ hours) a week. Prerequisite, Mathematics 141. Laye's Calculus. Mr. Kuhn.

#### FOR ADVANCED UNDERGRADUATES AND GRADUATES

**167. Differential Equations.** Three credit hours. Six recitations a week. Murray's Differential Equations. Mr. Rasor.

**186. The Teaching of Mathematics.** Two credit hours. Mr. Arnold.

A critical study of the teaching of Mathematics, with particular attention to the problems of the secondary schools. Lectures, discussions and practice teaching.



**173. Modern Higher Algebra or Invariants.** Three credit hours. Six recitations a week. Mr. Kuhn.

The subject matter of this course will be chosen with special reference to the needs of high school teachers.

#### SCHEDULE OF CLASSES

121	Daily, 7:30 (except Saturday).....	U.308	Rasor
131	Daily, 7:30 and 8:30 (except Saturday).....	U.308	Rasor
132	Daily, 7:30 and 8:30 (except Saturday)..	U.310	Rasor, Arnold
142	Daily, 7 to 8:30.....	U.312	Kuhn
167	M., Tu., Th., F., S., and one hr. to be arranged, 9:30	U.308	Rasor
173	Daily, 8:30.....	U.312	Kuhn
186	M., Tu., Th., F., 10:30.....	L.306	Arnold

#### MUSIC

DIRECTOR CAMPBELL, MR. HEARN

**101. Theory and Practice of Teaching Music.** Two credit hours. Four hours each week. Prerequisite, a knowledge of elementary music and sight singing. Mr. Campbell.

This course is for those students who are supervisors, who are to be supervisors, or who have to deal with music in the graded schools, the high schools, and the normal schools. It includes the study of methods and materials; the grading of music courses; the supervising, conducting and systematizing of public school music in general.

Music 101 credited only in College of Education.

**105. Advanced Harmony.** Two credit hours. Two lectures and four hours' practice each week. Mr. Campbell.

Modulations, suspensions, four-part song writing, simple melodies without modulation, and melodies containing change of key. Homophonic forms.

**111. Music Appreciation.** One credit hour. Two hours each week. Mr. Campbell.

This course is open to all students. Structural forms in their evolution from the primitive folk songs through the symphonies. Analytical lectures and lecture recitals.

**113. History of Music.** One credit hour. Two hours each week. Mr. Campbell.

The essential facts in the history of music; the development of the instrument, church forms; the development of church music, the oratorio, the opera; and the lives of the musicians.

Recitations and lectures.

**E. Theory and Harmony.** Two hours each week. Mr. Campbell.

The elements from scales, intervals and chord formation through inversions and chords of the seventh to modulations. The course includes both blackboard and keyboard work. (This course does not carry credit.)

**F. Conducting.** Two hours. For more advanced students. Prerequisite, the ability to read music readily at sight and a knowledge of part singing. Mr. Campbell.

This course consists in the methods of presenting the songs and choruses from the first grade through the high school. Use of the baton, signaling, methods of rehearsal, choral technic, and interpretation. Practice conducting by members of the class. Lectures and chorus singing. (This course does not carry credit.)

#### SCHEDULE OF CLASSES

101	M., Tu., Th., F., 9:30.....	H. F. 208	Campbell
105	Tu., Th., 8:30.....	H. F. 208	Campbell
111	Tu., Th., 1:30.....	H. F. 208	Campbell
113	M., F., 10:30.....	H. F. 208	Campbell
E	Tu., Th., 11:30.....	H. F. 208	Campbell
F	To be arranged.....	H. F. 208	Campbell

#### PHILOSOPHY

Office, 321 University Hall

PROFESSOR LEIGHTON, ASSISTANT PROFESSOR CHANDLER

Philosophy 105, 152 and 142 are especially adapted to the needs of teachers. Philosophy 105 involves the systematic consideration of the ethical values aimed at in education and social organization. Philosophy 152 traces the growth of ideas in the modern world up to the present time. Philosophy 142 traces the development of the philosophical conceptions that are implied in the philosophy of society and of education today. By special arrangement to do extra

work Philosophy 105 and 152 may be taken as a minor for the Master's degree. Philosophy 142 may be counted towards either a major or minor.

**105. Elementary Ethics.** Three credit hours. Not open to first year students. Mr. Leighton.

The course will open with a brief account of the evolution of morality, and of the principal theories of the moral standard or highest good. The major part of the course will be concerned with the practical applications of ethical theory to the problems of education and social and political organization in the United States today.

**152. The History of Modern Philosophy.** Three credit hours. Not open to first year students. Mr. Chandler.

The evolution of modern philosophic thought from Francis Bacon and Descartes to Herbert Spencer. The history of modern philosophy will be considered in relation to the literary, scientific, social and political movements of the modern European age. This course is of special value to students of literature, history, science and education.

**142. The Main Currents in Contemporary Philosophy.** Three credit hours. Prerequisite, one year's work in philosophy, psychology and biology, including Philosophy 101, 151 or 152. Mr. Leighton.

An account and estimate of the chief formative influences in the reflective life of the present time, including evolutionism, pragmatism, radical empiricism, and idealism. Intended for students of literature, science, education, and social movements.

#### FOR GRADUATES

**208. Seminary in Contemporary Philosophy.** Two or three credit hours. Mr. Leighton.

A critical examination of some of the more important movements in contemporary thought. The selection of these movements will depend in part upon the previous training and special interests of the members of the class. It will be made from the following topics: pragmatism and radical empiricism (William James and John Dewey), absolute idealism (Josiah Royce, Bernard Bosanquet, and F. H. Bradley), temporalism (Henri Bergson), monadism (James Ward and B. Varisco) and the new realism (B. Russell and the American neo-realists). This course may not be taken without previous consultation with the instructor. Students who have not pre-



viously had Philosophy 152 or 142 must take one of these courses concurrently with 208. When taken in conjunction with 142 it may be counted towards a major in philosophy for the Master's degree.

### SCHEDULE OF CLASSES

105	Daily, 9:30.....	U. 321	Leighton
142	Daily, 10:30 .....	U. 321	Leighton
152	Daily, 8:30.....	U. 321	Chandler
208	To be arranged.....	U. 321	Leighton

### PHYSICAL EDUCATION

Office, Athletic House and Gymnasium

PROFESSORS ST. JOHN, WILCE, AND CASTLEMAN, MR. MARSH, MR. TRAUTMAN, MISS MOODIE OF THE THOMAS NORMAL TRAINING SCHOOL OF DETROIT, MISS BOYER, MISS MESLOH

All courses, six weeks, June 21 to August 2.

**107. The Organization and Administration of Athletics in Secondary Schools.** One credit hour. Three lectures each week and additional conferences. Mr. St. John, Mr. Castleman.

Problems of internal organization in the school, selection of activities, finances, equipment, place and qualifications of director, features of athletics, etc., will be discussed. General problems, such as the formation of leagues or associations, schedule making, conducting meets, athletic policies, etc., will be considered.

**112. Principles of Coaching.** Two credit hours. Six lectures and ten hours' practice each week. Mr. St. John, Mr. Wilce, Mr. Castleman.

Instruction in the organization, conduct, and coaching theory and practice of competitive athletic games: football, basketball, baseball, track.

Rules of the games, formations, plays, selection and handling of men, training problems, playing of different positions and training in different events, team problems, generalship, and all fundamentals will be considered. The principles taught in this course will be demonstrated and actual field practice given. Personal equipment must be furnished by students.

## SUMMER SESSION

**114. Play and Play Ground Work.** One credit hour. Three lectures a week. Mr. Wilce.

Lectures on play theory, recreation, plays and games and other play ground activities.

**116a. Play Ground Activities for Boys.** One credit hour. Four practice hours a week. Mr. Wilce, Mr. St. John, Mr. Castleman.

Active group games of low and high organization; passive games, stunts and story telling; modern, all-inclusive, athletic competitions; play ground gymnastics and other activities.

**116b. Play Ground Activities for Girls.** One credit hour. Four practice hours a week. Miss Moodie, Miss Boyer.

Simple and advanced folk dances and singing games. Group games of low and high organization, competitions, story telling; excursions and other activities.

**118. Play Ground Practice.** One credit hour. Five hours a week. Mr. Wilce, Mr. St. John, Mr. Castleman, Miss Moodie, Miss Boyer, Miss Mesloh.

Practical planning, teaching, supervision and leadership on the regularly equipped Ohio State University Practice Play Ground under supervision.

Physical Education 114 and 116a or 116b will be taken as one course. Physical Education 118 will not be open to those students who are not registered for Physical Education 114 and 116a or 116b or who have had no previous course in play.

Exception to this rule is possible only on consent of the head of the department.

**120. Anthropometry and Physical Diagnosis. (Men).** Two credit hours. Daily for six weeks. Mr. Castleman.

Inspection, palpation, auscultation and percussion, with knowledge elicited and its significance. Examination of special senses; history taking; instruments and their uses.

**122. Teaching of Physical Education.** Two credit hours. Three lectures and five practice hours a week. Prerequisite, Physiology 101-102 or 119-120, Psychology 101-102, previous satisfactory physical training.

Instruction in methods of teaching and grading gymnasium work and theory of gymnastics. Practice in light and heavy apparatus, graded calisthenics, marching tactics. Instruction in gymnastic dancing and athletic games. Individual practice in handling squads on the floor.

**PHYSICAL EDUCATION FOR WOMEN**

**131. Hygiene and Elementary Practice.** One credit hour. One lecture and two hours elementary practice a day. Miss Moodie, Miss Boyer.

Lectures. Personal hygiene; care of the body; meaning and importance of health in relation to life and as a social factor; special hygiene for women; emergencies.

Elementary Practice. Formal floor work. Swedish gymnastics; calisthenics; dumb-bells and Indian clubs; simple heavy apparatus.

Marching Tactics. Facings; rank and file marching; figure marching.

Games. Volley ball, tennis, archery, basketball.

Dancing. Elementary aesthetic technique and dancing.

(This course is a prerequisite to all others or may be taken at the same time with others on approval of the head of the department.)

**135. Anthropometry and Physical Diagnosis.** Three credit hours. Lectures daily. One hour laboratory daily for the last two weeks. Miss Moodie, Miss Boyer.

Theory of taking and keeping records of physical history of students. Anthropometric measurements; physical examination by inspection of eye, ear, nose, throat, lungs, heart, back and feet, with interpretation of knowledge obtained. Interpretation of symptoms of common diseases and physical defects.

**136. Theory and Practice of Teaching and Advanced Practice.** Three credit hours. Three lectures, four practice hours and four hours teaching a week. Miss Moodie, Miss Boyer.

Lectures. Brief theory, principles and types of physical education as to purpose and methods; instruction in planning and conducting lessons for various ages; observation, criticism and discussion of classes.

Advanced Practice. Advanced formal floor work. Advanced Indian clubs; wands; advanced apparatus work.

Swimming. Dog paddle; floating; breast stroke; side stroke.

Games. Indoor baseball; field hockey.

Dancing. Advanced aesthetic technique and dancing. Festivals.

Teaching. Under supervision each student will conduct classes in swimming pool, on gymnasium floor and out of doors for children and older students.

**SUITS**

The regulation Ohio State gymnasium suit is preferred. Other suits consisting of loose blouse and full bloomers may be used.



Leather soled gymnasium shoes, ballet slippers, and for outside sports rubber soled shoes are required.

All suits, shoes and caps must be provided by the student.

*Note*—Though the above courses are planned primarily for those intending to teach, they may be taken by any student in the Summer Session who is interested in them. No student may receive more than six hours credit with the exception of students taking Physical Education as a minor in the College of Education. These students must take the maximum—twelve hours credit.

## GYMNASIUM

The gymnasium will be open during the session and will afford opportunity for voluntary exercises and indoor games. The equipment and apparatus may be used and the lockers, showers and swimming pools will be open to those who wish to use them, upon the payment of a fee of fifty cents. This fee includes the rental of towels.

The swimming pools will be available at all hours possible. The payment of a locker fee is required in order to obtain the privilege of using the pool. Swimming suits for women are furnished at a charge of five cents an hour. Instruction may be arranged for those who desire it.

The tennis courts will be available at all hours. A special ticket, the price of which is fifty cents, is required. The student provides racquet and balls. Instruction may be arranged for those who desire it.

A summer baseball team with limited schedule will be organized.

Two track meets will be held during session, one open to all students in the University, the other open only to students in the Department of Physical Education.

General excursions will be organized from time to time.

Students will be given opportunity to learn the principles and strokes of golf on the three hole practice links on the Athletic Field.

## SCHEDULE OF CLASSES

107	Monday and Friday and alternate Wednesdays, 1:30.....	A.
112	Daily, 2:30; Practice, 3:30-5:30.....	A.
114	Tuesday and Thursday and alternate Wednesdays, 1:30.....	A.
116a	} Hours to be arranged {	G.
116b		G.
118		Playground
120	Daily, 11:30.....	G.
122	Lecture, M., W., F., 8:30; Practice, Daily, 9:30.....	G.
131	Daily, 7:30.....	G.
135	Daily, 2:30.....	G.
136	W., S., 8:30. Hours to be arranged.....	G.

## PHYSICS

Office, 107 Physics Building

ASSISTANT PROFESSOR SMITH, MR. WOODBURY

**112. General Physics.** Three credit hours. Prerequisite, Mathematics 121-122 or 131-132. Mr. Smith.

Light and electricity. This corresponds to the work regularly given in the second semester with the same course number.

**103a. General Physics.** Three credit hours. Mr. Woodbury. Mechanics and heat. This corresponds in part to the work regularly given in the first semester as Physics 103.

**107. General Physics.** Four credit hours. For pre-medical students only. Mr. Woodbury.

## FOR ADVANCED UNDERGRADUATES AND GRADUATES

**121 or 122 and 123 or 124. Advanced Laboratory Physics.** Three credit hours. Mr. Smith, Mr. Woodbury.

Exercises designed to illustrate the methods employed in exact measurements and to give skill in practical manipulation of physical instruments. A year's work in physics in a secondary school, familiarity with plane trigonometry, and a year of college physics are prerequisite for this course. The laboratory will be open six hours daily. Properly qualified students may carry on advanced laboratory or research work.

**144. Advanced Electricity.** Three credit hours. Prerequisite, calculus and one year of college physics. Mr. Smith.

A lecture and recitation course intended for advanced undergraduates and graduate students. Correspondence with the instructor is invited.

## SCHEDULE OF CLASSES

103a	M., Tu., W., Th., F., 7:30.....	Ph. 200	Woodbury
107	M., Tu., W., Th., F., 8:30.....	Ph. 200	Woodbury
112	M., Tu., W., Th., F., 8:30.....	Ph. 205	Smith
121-2	{ M., Tu., Th., F., 9:30-12:30 } { Tu., W., Th., 1:30-4:30 }	Ph. 100	{ Smith Woodbury
123-4	{ M., Tu., Th., F., 9:30-12:30 } { Tu., W., Th., 1:30-4:30 }	Ph. 100	{ Smith Woodbury
144	M., Tu., W., Th., F., 7:30.....	Ph. 205	Smith

Each of the courses, Physics 112 and Physics 103a, includes one three-hour laboratory period. Physics 107 includes two three-hour laboratory periods. This laboratory work may be taken at the periods scheduled for Physics 121-122.

## PHYSIOLOGY

Office, 204 Biological Hall

PROFESSORS BROOKS AND BLEILE, MR. DURRANT

**119. General Physiology.** Three credit hours. Not open to first year students. Dr. Bleile.

Arranged for students who have no credit in chemistry.

A foundation course in the fundamental principles of animal physiology with applications to the human body, including demonstrations in circulation, digestion, respiration, gross and minute anatomy, reflex action, and other simple phenomena of living organisms.

**120. General Physiology.** Three credit hours. Continuation of Physiology 119, including the nervous system and the special senses. Prerequisite, Physiology 119. Dr. Bleile.

Arranged for students who have no credit in chemistry.

### FOR ADVANCED UNDERGRADUATES AND GRADUATES

**109. Physiological Laboratory.** Three credit hours. Prerequisite, Physiology 119 and 120, or equivalent. Dr. Bleile, Mr. Durrant.

Physiology 109 will be especially valuable to teachers of physiology in high schools and may be accompanied by either 119 or 120 taken as a review. Special attention will be given to muscle-nerve, the nervous system and the senses, but in general the laboratory work will be adjusted to the needs of individual students.

**203. Research in Physiology.** Three to five credit hours. For those who are qualified to undertake original investigation. Hours to be arranged by consultation. Dr. Brooks.

### SCHEDULE OF CLASSES

109	To be arranged.....	Bi. 200	Bleile, Durrant
119	Daily, 8:30.....	Bi. 200	Bleile
120	Daily, 10:30.....	Bi. 200	Bleile
203	To be arranged.....	Bi. 104	Brooks



**POLITICAL SCIENCE**

Office, 200 University Hall

PROFESSOR COKER

**133. Government in the United States.** Three credit hours. Not open to first year students. Mr. Coker.

A study of the organization and activities of the national government of the United States.

**FOR ADVANCED UNDERGRADUATES AND GRADUATES**

**130. Municipal Functions.** Three credit hours. Prerequisite, Political Science 133-134. Mr. Coker.

A study of the work of city government in the United States and Europe. Comparative studies will be made of the following fields of municipal activity: police protection; fire protection; sanitary functions; regulation of buildings; municipal charities; educational functions; street construction and city planning; garbage and sewage disposal; control of public utilities; municipal ownership; municipal finance.

**SCHEDULE OF CLASSES**

130	Daily, 10:30.....	U. 200	Coker
133	Daily, 7:30.....	U. 200	Coker

**PRINCIPLES AND PRACTICE OF EDUCATION**

Office, 100 C Hayes Hall

ASSISTANT PROFESSOR CLIFTON

**101. Principles of Education.** Three credit hours. Mr. Clifton.

A review of educational theory and the principles underlying teaching. Principles of education as applied to present day methods of teaching will be emphasized.

**111. Advanced Principles of Education.** Three credit hours. Prerequisites, Physiology 101 and 104, Psychology 101-102, and History of Education 101-102. Mr. Clifton.

This course is a search in the fields of biology, psychology and history of education for fundamental principles that should guide in educational practice, and is open to teachers and graduate students.

## PRACTICE TEACHING

On the joint recommendation of the State Department of Public Instruction, the President of the University, and the Dean of the College of Education, no courses in practice teaching will be offered in the Summer Session of 1917 at the Ohio State University. In their opinion, courses in practice teaching cannot at present be conducted effectively and satisfactorily in summer schools.

## SCHEDULE OF CLASSES

101	Daily, 9:30 .....	Ha. 208	Clifton
101	Daily, 11:30 .....	Ha. 208	Clifton
111	Daily, 8:30 .....	Ha. 208	Clifton

## PSYCHOLOGY

Office, 404 University Hall

PROFESSOR ARPS, ASSISTANT PROFESSOR WEISS, MR. EVANS,  
MR. BRIDGES, MR. BOCK

**101. Elementary Psychology.** Introductory course. Three credit hours. Mr. Arps, Mr. Bock.

**102. Elementary Psychology.** Introductory course. Three credit hours. Prerequisite, Psychology 101. Mr. Bock.

**107. Educational Psychology.** Two credit hours. Prerequisite, Psychology 101-102 or 103-104. Mr. Bridges.

**108. Educational Psychology.** Two credit hours. Prerequisite, Psychology 101-102, Psychology 107. Mr. Evans.

**114. Mental and Social Measurements.** Two credit hours. Prerequisite, Psychology 101-102 or 103-104. Mr. Weiss.

A course designed to meet the needs of those students who expect to carry on investigation in psychology, education and the social sciences. Topics: Standard methods of handling data, computation of averages; deviations and correlations; graphical representation; grading and marking systems. A continuation of Psychology 115.

**115. Genetic Psychology.** Two credit hours. Prerequisite, Psychology 101-102 or 103-104. Mr. Evans.

The natural history of the development of the mind. The important transitional periods in the life of the individual. The character-

istics of the child mind and the laws of mental life will receive special attention.

**125. Social Psychology.** Three credit hours. Prerequisite, Psychology 101-102 or 103-104. Mr. Weiss.

A study of the nature and variety of inherited tendencies; the relation of these tendencies to acquired behavior and social control; the development of personality; application to the problems of society; school conditions, and educational aims.

**129. Advanced Psychology.** Two credit hours. Prerequisite, Psychology 101-102 or 103-104. Mr. Arps.

Intended for students who desire a more detailed knowledge of the mental processes than is possible in an introductory course. Fundamental to all fields of psychology and philosophy and to allied fields which involve human behavior.

**133. Mental Tests.** Two credit hours. Prerequisites, Psychology 111-112 or 107-108 or 121-122. Mr. Evans.

Practical laboratory work in the application of all kinds of psychological tests and educational scales. Adapted to meet the individual needs of all prospective teachers or those desiring practice in applying the Binet scale and other scales for mental classification.

**141. Minor Research.** Two credit hours or more. Prerequisite, at least twelve hours in psychology. Mr. Arps, Mr. Weiss.

Investigation of minor problems in the various fields of psychology.

#### SCHEDULE OF CLASSES

101	Daily, 7:30.....	U. 400	Bock
101	Daily, 8:30.....	U. 400	Arps
101	Daily, 10:30.....	U. 400	Bridges
102	Daily, 10:30.....	U. 410	Bock
107	M., Tu., Th., F., 7:30.....	U. 401	Bridges
107	M., Tu., Th., F., 8:30.....	U. 401	Bridges
108	M., Tu., Th., F., 7:30.....	U. 410	Evans
114	M., Tu., Th., F., 9:30.....	U. 410	Weiss
115	M., Tu., Th., F., 8:30.....	U. 406	Evans
125	Daily, 7:30.....	U. 406	Weiss
129	M., Tu., Th., F., 10:30.....	U. 412	Arps
133	M., Tu., Th., F., 9:30 to 11:30.....	U. 405	Evans
141	To be arranged.....	U. 403	Arps, Weiss



## ROMANCE LANGUAGES AND LITERATURES

Office, 305 University Hall

PROFESSORS BRUCE AND INGRAHAM, ASSISTANT PROFESSOR CHAPIN,

MR. CARDON

## FRENCH

**101. Elementary Course.** Four credit hours. Text-books: Cardon's Practical French Course (Silver, Burdett & Co.), Laboulaye's Contes bleus (Heath). Mr. Cardon.

Careful study of pronunciation; rapid survey of the essentials of grammar, with written exercises in the translating of English sentences into French; oral drill; translation of easy French prose. This course is intended for students or teachers who wish to secure in a short period a really substantial knowledge of the leading facts of the language.

**102. Elementary Course (continued).** Four credit hours. Prerequisite, French 101, or an equivalent. Mr. Bruce.

Review of the principles of French grammar, including irregular verbs. Exercises in prose composition. Fraser and Squair's Grammar, with practice in speaking. Reading of prose stories and comedies.

**103. Modern French Literature.** Four credit hours. Prerequisite, one year of collegiate French, or its equivalent. Mr. Chapin.

Study of somewhat difficult prose and of one or more dramas, with review of special features of the grammar, and with exercises in prose composition. Brief lectures supplement the literary work.

## FOR ADVANCED UNDERGRADUATES AND GRADUATES

**107. Advanced Composition and Conversation.** Two credit hours. Prerequisite, two years of collegiate French, or its equivalent. Mr. Cardon.

Cameron's French Composition, followed by other selections. Dictation, conversation. The course is conducted mainly in French.

**108. History of French Literature.** Two credit hours. Prerequisite, two years of collegiate French, or its equivalent. Mr. Cardon.

Lectures and illustrative readings. The course is conducted mainly in French.

**112. Nineteenth Century Drama.** Two credit hours. Prerequisite, at least two years (four hours a week) of collegiate French, or its equivalent. Mr. Bruce.

Tendencies of French drama during the nineteenth century, with especial reference to Scribe, Augier, Dumas fils, and Sardou. Lectures, with collateral reading and reports.

#### FOR GRADUATES

**205. History of the Literary Movement in France in the First Half of the Nineteenth Century.** Two credit hours. Prerequisite, at least three years of collegiate French. Mr. Bruce.

Special emphasis will be placed upon the Romantic movement. A critical study, with lectures, assigned readings and reports, of Chateaubriand, Mme. de Staël, Hugo, and Lamartine.

#### REQUIREMENTS FOR THE M. A. DEGREE

Among the courses to be offered in the Summer Sessions are certain ones which are considered essential for all graduate students who are candidates for the degree of Master of Arts with a major in French. These courses are: for the summer of 1917, French 107, 108, 112, 205; for 1918, French 113, 114, 122, 217 (or 219); for 1919, French 111, 116, 122, 218. If any of these courses (description of which may be found in the Graduate Bulletin) should not be given, equivalents will be provided.

#### SPANISH

**101. Elementary Course.** Four credit hours. Text-books: Ingraham-Edgren's Spanish Grammar, and Ingraham's Victoria. Mr. Ingraham.

Rapid survey of the essentials of the grammar, with written exercises in the translation of English sentences into Spanish; oral drill; translation of easy Spanish prose. This course is intended for students or teachers who wish to secure in a short period a really substantial knowledge of the leading facts of the language.

**102. Elementary Course (continued).** Four credit hours. Prerequisite, Spanish 101 or an equivalent. Mr. Ingraham.

Review of the essential features of Spanish grammar. Exercises in prose composition with practice in speaking. Reading of prose stories and comedies.

## SCHEDULE OF CLASSES

## French

101	M., Tu., W., Th., F., 8:30; M., W., F., 10:30...	U. 303	Cardon
102	M., Tu., W., Th., F., 7:30; M., Tu., Th., 9:30...	U. 302	Bruce
103	M., Tu., W., Th., F., 7:30; M., Tu., Th., 9:30...	U. 306	Chapin
107	M., Tu., Th., F., 9:30.....	U. 303	Cardon
108	M., Tu., W., Th., 7:30.....	U. 303	Cardon
112	M., Tu., W., Th., 8:30.....	U. 302	Bruce
205	To be arranged .....	L. 311	Bruce

## Spanish

101	M., Tu., W., Th., F., 8:30; M., W., F., 10:30.	U. 301	Ingraham
102	M., Tu., Th., F., 9:30; M., Tu., W., Th., 11:30.	U. 301	Ingraham

## SCHOOL ADMINISTRATION

Office, 100 A Hayes Hall

PROFESSOR BROWN AND PROFESSOR UPDEGRAFF OF THE UNIVERSITY  
OF PENNSYLVANIA, ASSOCIATE PROFESSOR KOOS  
OF THE UNIVERSITY OF WASHINGTON,  
ASSISTANT PROFESSOR AIKIN

**101. Public Education in the United States.** Three credit hours.  
Open to advanced undergraduates. Mr. Brown, Mr. Aikin.

An introductory survey of American public education as the expression and promoter of democracy. School laws, regulations and decisions of Ohio. Lectures, reading, quiz.

**102. State School Administration.** Three credit hours. Open to advanced undergraduates. Mr. Koos.

Federal and state policies. Forms of control. Revenue and apportionment. The state and the teacher. The state and the child. The state and non-state education. Lectures, reading, quiz.

## FOR ADVANCED UNDERGRADUATES AND GRADUATES

**111. The Administration of Secondary Schools.** Three credit hours. Mr. Aikin.

Historical forerunners of the high school. Types of high schools. Aims of secondary education. Relation to higher and elementary education. High schools of the north central states. Curricula and



time schedules. College entrance requirements. Buildings. Equipment. Texts. Supplies. Support and cost. Lectures, reading, quiz.

**112. The Administration of Secondary Schools.** Three credit hours. Mr. Koos.

Retardation. Elimination. Overage. Delinquency. Student activities. Grading. Records. Reports. Hygiene. Sanitation. Health. Preparation, selection, assignment, tenure and pay of teachers. Lectures, reading, quiz.

**113. The Administration of Elementary Schools.** Three credit hours. Mr. Updegraff.

Aims of elementary education. Organization and control. Types of schools. Curricula. Schedules. Texts. Supplies. Relation to secondary and vocational education. Buildings. Equipment. Grounds. Support and cost. Lectures, reading, quiz.

#### FOR GRADUATES

**201. Seminary.** Two to five credit hours. Open to superintendents and principals of graduate standing by permission of the instructor in charge. Mr. Updegraff.

City school surveys. Individual assignments and reports. Criticism and discussion.

**202. Seminary.** Two to five credit hours. Open to superintendents and principals of graduate standing by permission of the instructor in charge. Mr. Brown.

State school surveys. Individual assignments and reports. Criticism and discussion.

#### SCHEDULE OF CLASSES

101	Daily, 10:30.....	Ha. 208	Brown
101	Daily, 10:30.....	Ha. 200	Aikin
102	Daily, 11:30.....	Ha. 200	Aikin
111	Daily, 7:30.....	Ha. 200	Koos
112	Daily, 2:30.....	Ha. 200	Koos
113	Daily, 8:30.....	Ha. 200	Updegraff
201	Tu., Th., S., 3:30 to 5:30.....	Ha. 101	Updegraff
202	M., W., F., 3:30 to 5:30.....	Ha. 101	Brown

**SHOPWORK**

(Department of Industrial Arts)  
Office, 125 Shop Building

ASSOCIATE PROFESSOR KNIGHT, MR. CASE, MR. BEEM, MR.  
SMITH, MR. BRECKUR, MR. WRIGHT, MR.  
DENMAN, MR. FOUST, AND PROFESSOR USRY  
OF THE DEPARTMENT OF MANUAL  
TRAINING

The courses in shopwork are taught by practical and experienced shopmen who have had several years of successful teaching. The work of these courses will be especially helpful to men desirous of becoming teachers or supervisors of manual training in high schools.

**105. Founding.** Two credit hours. Four weeks, June 21 to July 19, six days a week. Mr. Beem, Mr. Breckur.

Tempering sand and preparing green-sand molds of machine parts, core-making, melting of iron and brass, pouring.

**107. Chipping and Filing.** Two credit hours. Four weeks, June 21 to July 19, six days a week. Mr. Case.

Exercises and practice in bench-work, including chipping in cast and wrought iron, surface filing, squaring, fitting, finishing, and the scraping of surface plates.

**109. Joinery and Pattern Making.** Two credit hours. Four weeks, June 21 to July 19, six days a week. Mr. Beem, Mr. Denman.

Exercises and practice in joinery, wood-turning, and pattern making, including sawing, planing and mortising, framing, and other work involving the use of the ordinary carpenter tools; center and chuck-turning, the making of finished patterns, and enough elementary molding to illustrate drafts, parting, cores, etc.

**111. Advanced Pattern Making.** Two credit hours. Four weeks, June 21 to July 19, six days a week. Mr. Beem, Mr. Denman.  
Continuation of Shopwork 109.

**113. Cabinet-Making.** Two credit hours. Prerequisite, Shopwork 109. Mr. Usry, Mr. Smith.

**115. Forging.** Two credit hours. Four weeks, June 21 to July 19, six days a week. Mr. Foust, Mr. Wright.

The use and care of the forge, fire and tools; practice in iron and steel forging, including such operations as cutting, bending, drawing, upsetting, shaping, and welding of iron; the making, hardening, and tempering of steel punches, chisels and lathe tools.

If there is sufficient demand this course will be repeated the second four weeks of the session, July 20 to August 16.

**119. Machine Work.** Three credit hours. Four weeks, June 21 to July 19, six days a week. Mr. Knight.

Elementary exercises on engine-lathes, such as plain, straight and taper turning, screw cutting, chucking, boring, filing and polishing. Elementary exercises on the drill press and plane.

**121. Advanced Machine Work.** Three credit hours. Four weeks, June 21 to July 19, six days a week. Prerequisite, Shopwork 119. Mr. Knight.

Continuation of Shopwork 119, with more difficult exercises on the lathe, including square thread cutting, drilling and tapping, the use of steady rest, face plate work, and brass turning; practice on the milling machine, planer, shaper and turret lathe.

**129. Wood-Turning.** Three credit hours. Prerequisite, Shopwork 109. Mr. Smith.

**130. Pattern-Making.** Three credit hours. Prerequisite, Shopwork 129. Mr. Smith.

**131. Advanced Cabinet Work.** Three credit hours. Prerequisite, Shopwork 113. Mr. Smith.

**133. Elementary Woodwork.** Two credit hours. No prerequisite. Mr. Usry, Mr. Smith.

#### SCHEDULE OF CLASSES

105	Daily, 7:30 to 10:30.....	S. Beem, Breckur
107	Daily, 8:30 to 11:30 or 1:30 to 4:30.....	S. Case
109	Daily, 8:30 to 11:30 or 1:30 to 4:30.....	S. Beem, Denman
	Daily, 8:30 to 11:30; last 4 weeks.....	S.
111	Daily, 1:30 to 4:30.....	S. Beem, Denman
113	M., Tu., W., Th., F., 10:30 to 12:30; Sat., 7:30 to 11:30....	
	.....	S. Usry, Smith
115	Daily, 8:30 to 11:30 or 1:30 to 4:30.....	S. Foust, Wright
119	Daily, 7:30 to 11:30.....	S. Knight
121	Daily, 1:00 to 5:00.....	S. Knight
129	M., Tu., W., Th., F., 9:30 to 12:30.....	S. Smith
130	M., Tu., W., Th., F., 1:30 to 4:30.....	S. Smith
131	M., Tu., W., Th., F., 1:30 to 4:30.....	S. Smith
133	M., Tu., W., Th., F., 10:30 to 12:30; Sat., 8:30 to 11:30....	
	.....	S. Usry, Smith



**SOCIOLOGY**

(See Economics and Sociology)

**SPANISH**

(See Romance Languages and Literatures)

**ZOOLOGY AND ENTOMOLOGY**

Office, 101 Botany and Zoology Building

ASSISTANT PROFESSOR BARROWS, MRS. STEHLE, PROFESSOR OSBORN (IN CHARGE OF RESEARCH WORK ON HEMIPTERA)

**101. Elementary Zoology.** Three credit hours. Lectures and laboratory work. Mrs. Stehle.

An introductory general course intended to give an acquaintance with animal life and the principles of biology and to serve as a foundation for more advanced courses. Studies of invertebrates to the arthropods. Emphasis will be placed upon the correlations of structure and functions as well as classification, economic importance and other topics.

**102. Elementary Zoology.** Three credit hours. Lectures and laboratory work. Prerequisite or concurrent, Zoology 101 or equivalent. Mr. Barrows.

Study of arthropods and vertebrates. Consideration will be given to the theories of evolution, questions of instinct and intelligence, and heredity.

**129. Quantitative Studies in Variation and Heredity.** Two to five credit hours. Prerequisite, Zoology 101-102, and one year of another biological science, or equivalent. Mr. Barrows.

Studies of the statistical and pure line methods and their application to questions of variation and heredity, including practice in measuring, assembling, and analyzing data, and the plotting of curves and calculation of coefficients. The pure line method of studying heredity will receive considerable attention including practice in handling and analysis of Mendelian data.

**145. The Teaching of Zoology.** Three credit hours. Prerequisite, Zoology 101-102. Mr. Barrows.

This course is offered with the object of familiarizing the student with the material and the method of handling laboratory courses in zoology. The work consists of lectures and assigned readings on the sources of zoological information and the methods of teaching zoology, along with actual teaching in the laboratory, field studies and the collection and preservation of laboratory material.

#### FOR GRADUATES

**241. Research Work.** Subject to be assigned. Five to ten credit hours. Mr. Osborn, Mr. Barrows.

Mr. Osborn, Research Professor, expects to be on the grounds during a portion of the session and will be ready to supervise research work in his special subjects. Students wishing to work under his direction should consult him in advance as to details of work.

Zoology 101 and 102 may be taken at the same time and when so taken a full year of credit in zoology may be obtained.

Zoology 129 will be given as a two-hour course unless special arrangement is made for more credit. This course deals principally with questions of heredity. The data of human heredity are used as far as practicable and the question of heredity and education will receive consideration.

Zoology 145 is designed to meet the requirements of the College of Education for those who are majoring in zoology.

Zoology 241. Graduate work may be started during the Summer Session with the probability of being continued during the following summers.

#### SCHEDULE OF CLASSES

101	L., M., Tu., Th., F., 7:30.....	B. Z. 109	Stehle
	Lab., M., W., 2:30 to 4:30		
102	L., M., Tu., Th., F., 9:30.....	B. Z. 67	Barrows
	Lab., Tu., Th., 2:30 to 4:30		
129	L., M., Tu., Th., F., 7:30.....	B. Z. 67	Barrows
145	To be arranged.....	B. Z. 67	Barrows, Stehle
241	To be arranged .....	B. Z.	Barrows